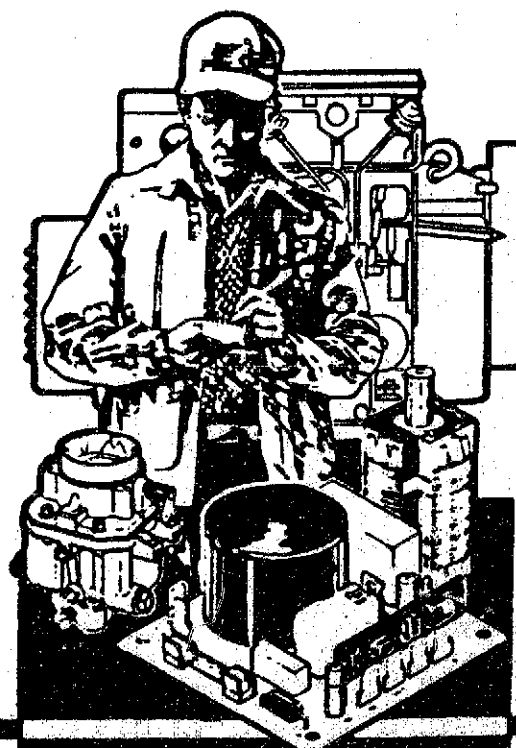

Onan

Parts Manual

SJB

GenSet



Onan Service Parts

946-0221
3-92 (Spec A-E)
Replaces 11-89 (Spec A-C)

Printed in U.S.A.

Generation

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Introduction

This Parts Manual applies to the Standard Sets Listed below. The illustrations are arranged in groups of related items, and each part or assembly is identified by a Reference Number. All parts illustrated are typical, and unless otherwise mentioned in the description column the parts are interchangeable between models.

These typical illustrations are subject to change and reflect only the latest replacement parts arrangement. The Right and Left sides of the Set are determined by FACING the FRONT of the Set (Engine End)

Set Data Table

MODEL IDENTIFICATION	RATING	RPM RATING	BATTERY VOLTAGE
35.0 SJB - */ # @	35,000 WATTS	1800 RPM	12 VDC

Electrical Data Table

*VOLTAGE CODE	VOLTS	HERTZ	WIRE	PHASE	NOTES
15	120/240	60	12	1	+
15	120/208	60	12	3	+
	120/240	60	12	3	
	127/220	60	12	3	
	139/240	60	12	3	
	240/416	60	12	3	
	254/440	60	12	3	
	277/480	60	12	3	

- * - Voltage Codes follow Model Letter designations.
- # - Specification Number: Number 1 is Standard, all others indicate variations.
- @ - Specification Letter: Letter advances (A to B, B to C, etc) with major manufacturing changes.
- + - The Stators are Reconnectible.

CHRYSLER ENGINE MODEL: H135 - Spec No. 4417799

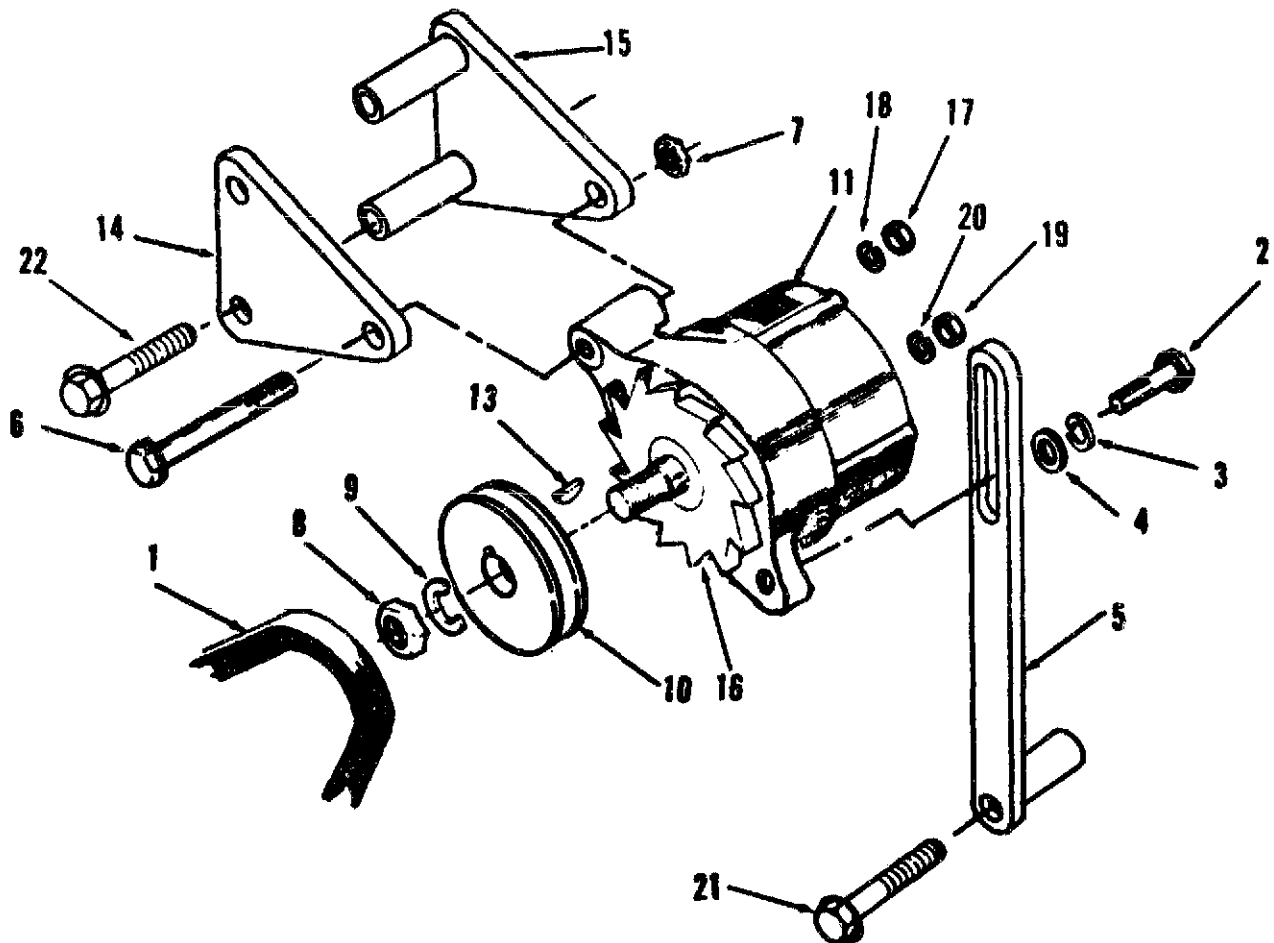
Engine Replacement Parts

All Engine replacement parts must be ordered from the Engine Manufacturer, except those modified or added by Onan. When ordering engine parts, refer to the Engine Manufacturer's Nameplate and supply the Model, Specification, Serial Numbers and other available information. Refer to the Engine Manufacturer's Manuals for your nearest authorized Parts Distributor; or contact the Onan Distributor from whom you purchased this set, for assistance in ordering the replacement parts.

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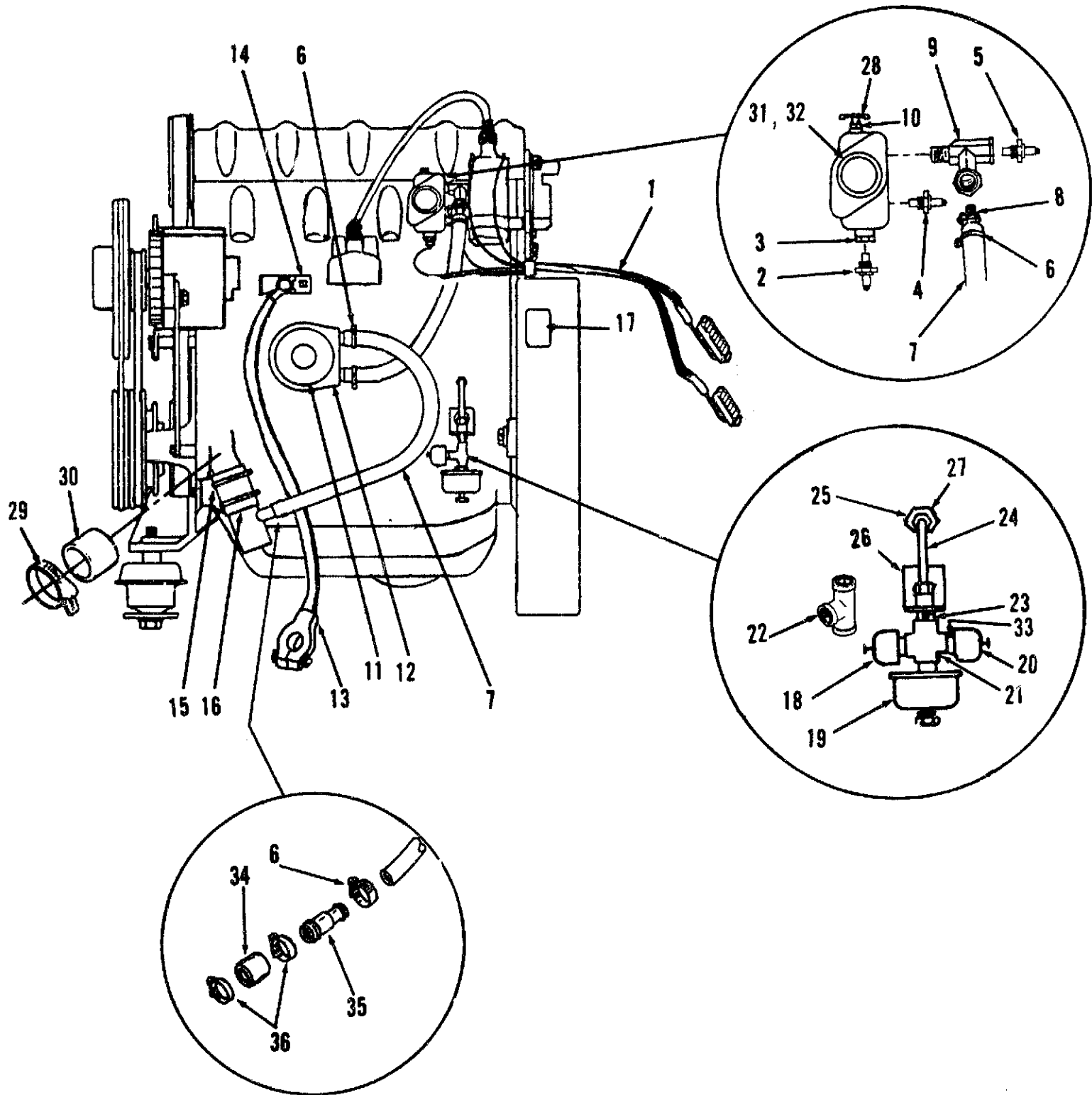
Alternator (Spec A-D)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0074	1	Belt, Drive	11	191-1525	1	Alternator - 12 VDC
	511-0173	1	Spec A-C		191-1983-01	1	Spec A-C
2	718-1037	1	Spec D	13	515-0093	1	Spec D
	800-2059	1	Screw, Cap - Hex Head	14	191-1620	1	*Key, Woodruff (#5)
3	850-2008	1	M8 x 1.25 x 25MM (Spec A-C)		191-1837	1	Plate, Mounting - Alternator
4	526-2106	1	M8 x 1.25 x 30MM (Spec D)	15	191-1622	1	Spec A and B
5	191-1621	1	Washer, Lock - Spring (M8)		191-1622	1	Begin Spec C
6	821-2070	1	Washer, Flat (M8)	16	191-1836	1	Bracket, Mounting - Alternator
	800-2099	1	Bracket, Adjusting - Alternator		191-1981	1	Spec A and B
7	870-2056	1	Screw, Self-Locking - Hex Head	17	860-2008	2	Begin Spec C
8	868-0007	1	Spec A-C (M10 x 1.5 x 70mm)	18	850-2008	1	Fan, Alternator (Spec D)
	870-2161	1	Spec D (M10 x 1.5 x 90mm)	19	860-2006	2	Nut, Hex (M8) (Spec D)
9	850-0070	1	*Nut, Hex	20	850-2005	2	Washer, Lock (M8) (Spec D)
	851-0039	1	Spec A-C (5/8-18)	21	821-2067	1	Nut, Hex (M5) (Spec D)
		1	Spec D (M16)				Washer, Lock (M5) (Spec D)
10	191-1339	1	Washer, Lock - Spring	22	821-2071	2	Screw, Flange - Self-Locking
	191-2032	1	Spec A-C (5/8)				(M10 x 1.5 x 55mm)
		1	Spec D (M16)				Screw, Flange - Self-Locking
			Pulley				(M10 x 1.5 x 80mm)
			Spec A-C				
			Spec D				

* - Included with Alternator.

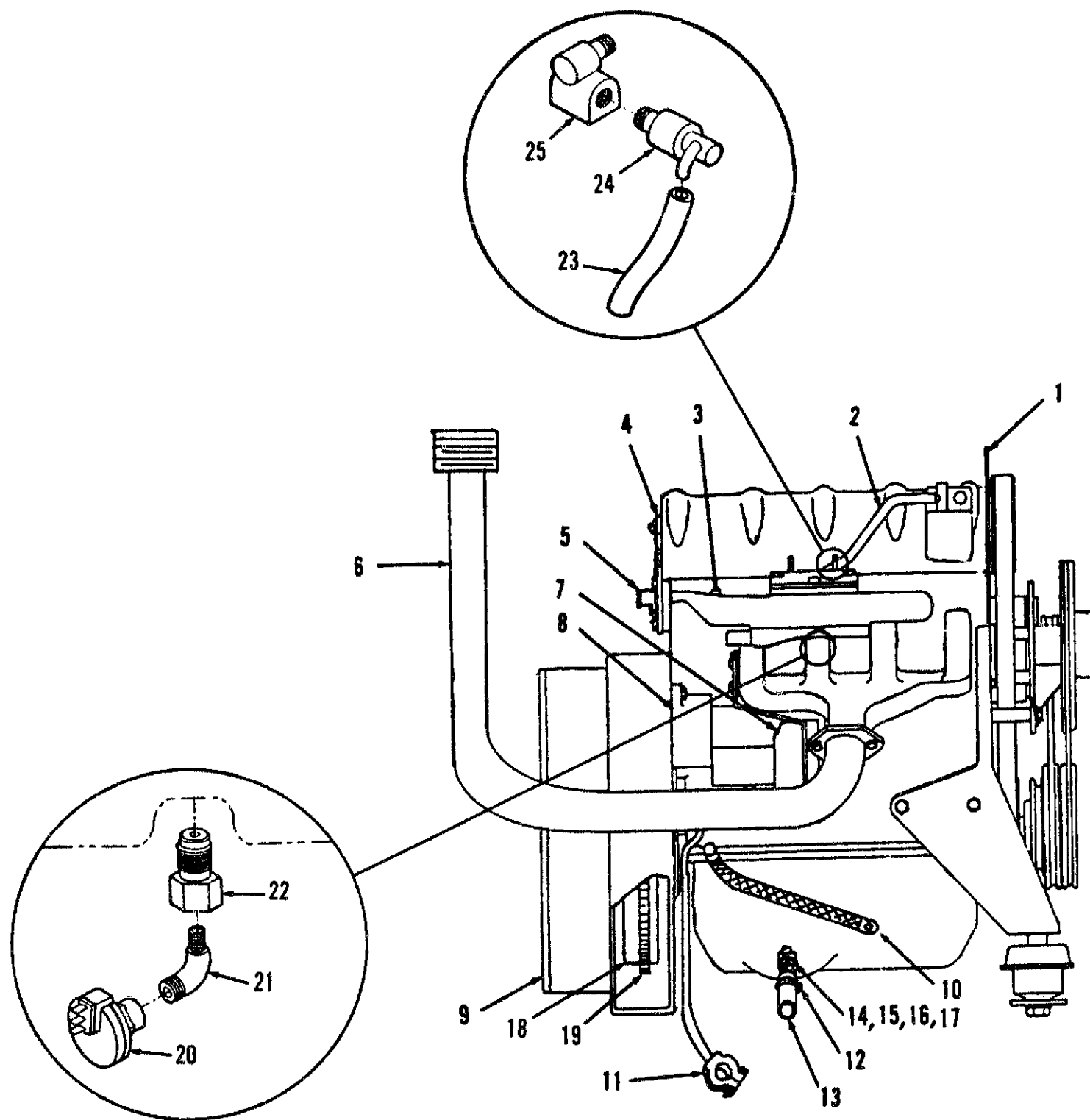
Engine Components - Right Side



Engine Components - Right Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring - Engine (Includes Connector Housings and Pins)	15	503-0429	2	Clamp, Hose
	338-1860	1	Spec A-C	16	503-1373	1	Hose, Radiator
	338-2774	1	Spec E	17	101-0592	1	Plug - Timing Hole
	323-1304	1	Housing, 6 Pin (J2)	18	309-0169	1	Switch, Pressure - Oil (Shutdown) (S1)
	323-1200	6	Contact, Pin	19	193-0244	1	Sender, Pressure - Oil (E1)
	323-1306	1	Housing, 8 Pin (J1)	20	309-0272	1	Switch, Pressure - Oil (Pre-Alarm) (S5)
			Contact, Pin	21	505-0763	1	Cross, Pipe (1/8 NPT)
2	309-0436	1	Switch, Thermostatic (Pre-Alarm) (S6)	22	505-0059	1	Tee, Pipe (1/8 NPT)
3	505-0131	1	Bushing, Reducer - Hex	23	505-0098	1	Nipple, Pipe (1/8 NPT)
4	309-0437	1	Switch, Thermostatic (Shutdown) (S2)	24	501-0002	1	Line, Fuel - Flexible
5	193-0318	1	Sender, Temperature - Engine Coolant (E2)	25	502-0003	1	Connector, Hex - Brass
6	503-0183	4	Clamp, Hose (5/8" x 20")	26	193-0376	1	Bracket, with Coupling
7	503-0565		Hose		821-2076	1	Screw, Self-locking - Hex Head (M12 x 1.75 x 25MM)
8	502-0816	1	Adapter, Hose to Pipe	27	505-0007	1	Bushing, Reducer (1/4 NPT x 1/8 NPT)
9	502-0812	1	Tee, Pipe	28	504-0028	1	Cock, Drain (3/8 NPT)
10	505-0110	2	Plug, Pipe (3/8 NPT)	29	132-0223	1	Clamp, Hose
11	122-0655	1	Filter, Oil	30	132-0222	1	Cap, Rubber
12	102-1274	1	Cooler, Oil	31	309-0591	1	Thermostat
13	416-0851	1	Cable, Battery	32	193-0417	1	Gasket, Thermostat
	800-2085	1	Screw, Cap - Hex Head (M10 x 1.5 x 20MM)	33	505-0057	1	Plug, Pipe (1/8 NPT)
	856-0012	1	Washer, Lock - EIT (7/16")	34	503-1766	1	Hose (.75 ID x 1.50 LG)
14	332-1292	1	Terminal Board (Includes Screw, Nut, Washer and Bkt)	35	503-1765	1	Adapter, Hose
	809-0035	1	Screw, Tapping - Round Head (#8 x 3/4")	36	503-0189	2	Clamp, Hose
	508-0015	1	Washer, Fiber (#8)				
	870-0196	1	Nut, Insulating (#8)				
	332-1281	1	Bracket				

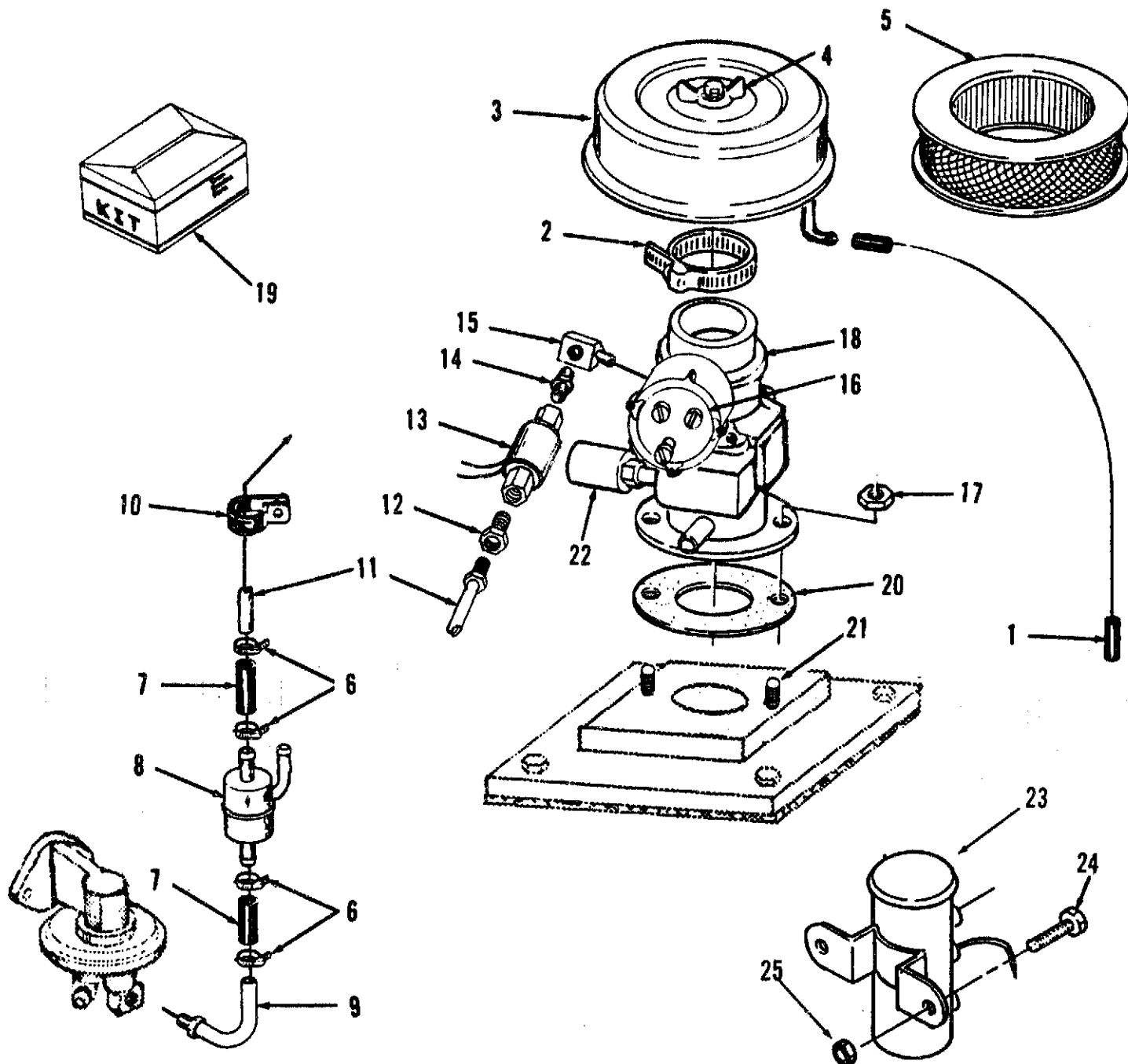
Engine Components - Left Side



Engine Components - Left Side

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Guard, Belt	12	503-0032	1	Clamp, Hose
	130-2666	1	Spec A-D	13	503-0304	1	Hose, Bulk (Order by Foot) One Foot Required
	130-3994	1	Spec E	14	505-0135	1	Nipple, Pipe - Half
2	503-0849	1	Hose, Rubber (Used Thru 9-88)	15	504-0030	1	Valve, Cock
3	505-0110	1	Plug, Pipe	16	102-0652	1	Adapter, Hex (3/8 NPT x 1/2-20 UNF)
4			Bracket, Mounting - Coil	17	102-0664	1	Gasket, Drain - Oil
	166-0752	1	Spec A-D	18		1	Flywheel (Includes Ring Gear)
	166-0824	1	Spec E		104-1589	1	Spec A Only
5	309-0269	1	Switch, Thermostatic - Low Engine Temperature (S4)		104-1684	1	Begin Spec B
	718-1053	1	Screw, Cap - Hex Head (M10 x 1.5 x 20MM)	19	104-1666	1	Gear, Ring
	740-1008	1	Washer, Flat (M10)		104-1593	8	Screw, Cap - Hex Head (Begin Spec B)
6	154-2556	1	Tube, Exhaust		720-1054	6	Screw, Cap - Hex Head (M10 x 1.75 x 25MM) (Spec A Only)
	821-2051	2	Screw, Self-locking - Hex Head (M8 x 1.25 x 45MM)		740-1008	8	Washer, Lock - Spring (M10) (Begin Spec B)
	860-2008	4	Nut, Hex (M8 x 1.25)		740-1008	6	Washer, Lock - Spring (M10) (Spec A Only)
7	155-2069	1	Shield, Heat	20	148-0367	1	Switch, Vacuum
8			Starter - 12 VDC	21	505-0049	1	Elbow, Street - Black (1/8 NPT)
	191-1394	1	Use Thru 6-89 (Mechanical Fuel Pump)	22	505-1437	1	Fitting, Switch - Vacuum
	191-1888	1	Used Beginning 7-89 (Electrical Fuel Pump)	23	503-1670	1	Hose, PCV (Use Beginning 10-88)
	191-1959	1	Spec C	24	505-1417	1	Elbow, Valve - PCV (Use Beginning 10-88)
	821-2076	2	Screw, Self-locking - Hex Head (M10 x 1.75 x 25MM)	25	504-0167	1	Valve, Vent - Crankcase (Use Beginning 10-88)
	526-2140	2	Washer, Flat (M10)				
9	101-0736	1	Housing, Flywheel				
10	337-0090	1	Strap, Electrical - Ground				
11	416-0581	1	Cable, Battery				

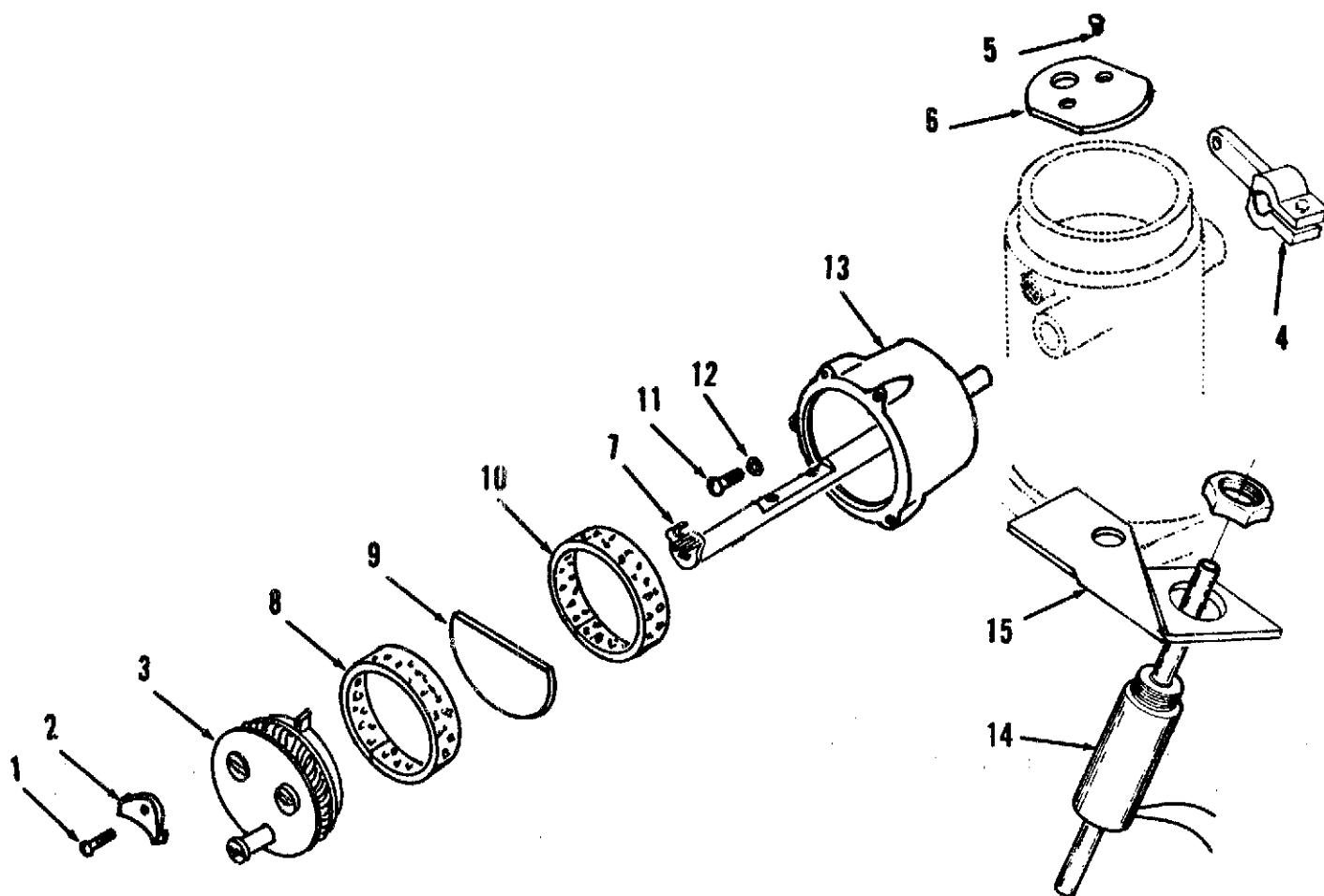
Fuel System - Gasoline



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0227	1	Hose, Bulk (Order by Foot) (Two Feet Required)
2	503-0465	1	Clamp, Hose
3	140-1962	1	Cleaner, Air (Includes Wing Nut and Element)
4	865-0020	1	Nut, Wing (1/4-20)
5	140-2065	1	Element, Air Cleaner
6	503-0685	4	Clamp, Hose
7	503-0883	2	Hose, Rubber
8	149-2026	1	Filter, Fuel - Gasoline
9			Line, Fuel
	149-2025	1	Mechanical Fuel Pump
	501-0565	1	Electrical Fuel Pump
10	332-1022	1	Clamp, Loop
11			Line, Fuel
	149-2024	1	System Without Solenoid
	149-2078	1	System With Solenoid
12	502-0018	1	Connector, Inverted Male
13	307-1279	1	Valve, Solenoid - 12 VDC

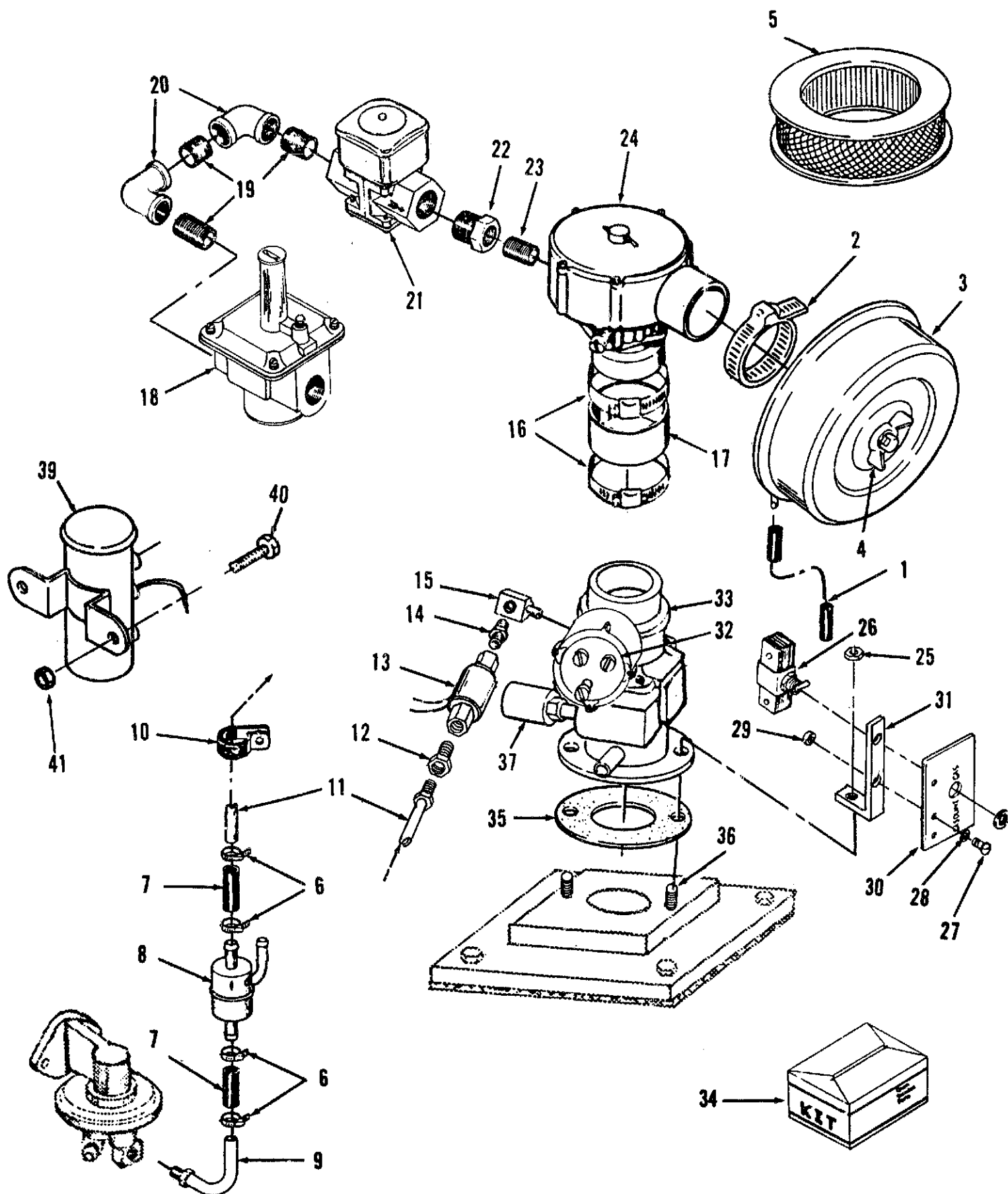
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	502-0082	1	Nipple, Pipe - Hex
15			Elbow, Pipe - 90 DEG, Brass
	502-0004	1	System Without Solenoid
	502-0020	1	System With Solenoid
16			Choke and Solenoid (See Separate Page for Components)
17	870-2055	2	Nut, Self-locking - Hex Head (M8 x 1/25)
18	141-0931	1	Carburetor, Gasoline (Less Choke and Solenoid)
19	141-0944	1	Kit, Repair - Carburetor
20	154-0133	1	Gasket - Carburetor Mounting
21	520-2205	2	Stud (M8 x 1.25 x 33MM)
22	141-0951	1	Solenoid
23	149-1730	1	Pump, Fuel (Electrical)
24	821-2035	2	Screw, Lock Head (M6 x 1 x 25)
25	870-2054	2	Nut, Lock (M6 x 1)

Choke Components and Solenoid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0096	3	Screw, Machine - Round Head (#10-32 x 1/4")	8	141-0909	1	Strip, Cork (1/2" x 4")
2	153-0580	3	Clip, Retaining - Choke Cover	9	141-0905	1	Plate, Heatshield
3	141-0911	1	Cover, Choke with Heater and Spring	10	141-0910	1	Strip, Cork (1/2" x 5-1/2")
4	141-0946	1	Lever, Choke	11	812-0103	1	Screw, Machine - Round Head (#10-24 x 3/4")
5	141-0906	2	Screw, Machine - Round Head with Lockwasher	12	850-0030	1	Washer, Lock - Spring (#10)
6	141-0916	1	Plate, Choke	13	145-0544	1	Housing, Choke
7	141-0945	1	Shaft, Choke	14	307-2017	1	Solenoid - 12 VDC (Choke Closing)
				15	307-2547	1	Bracket, Mounting - Solenoid

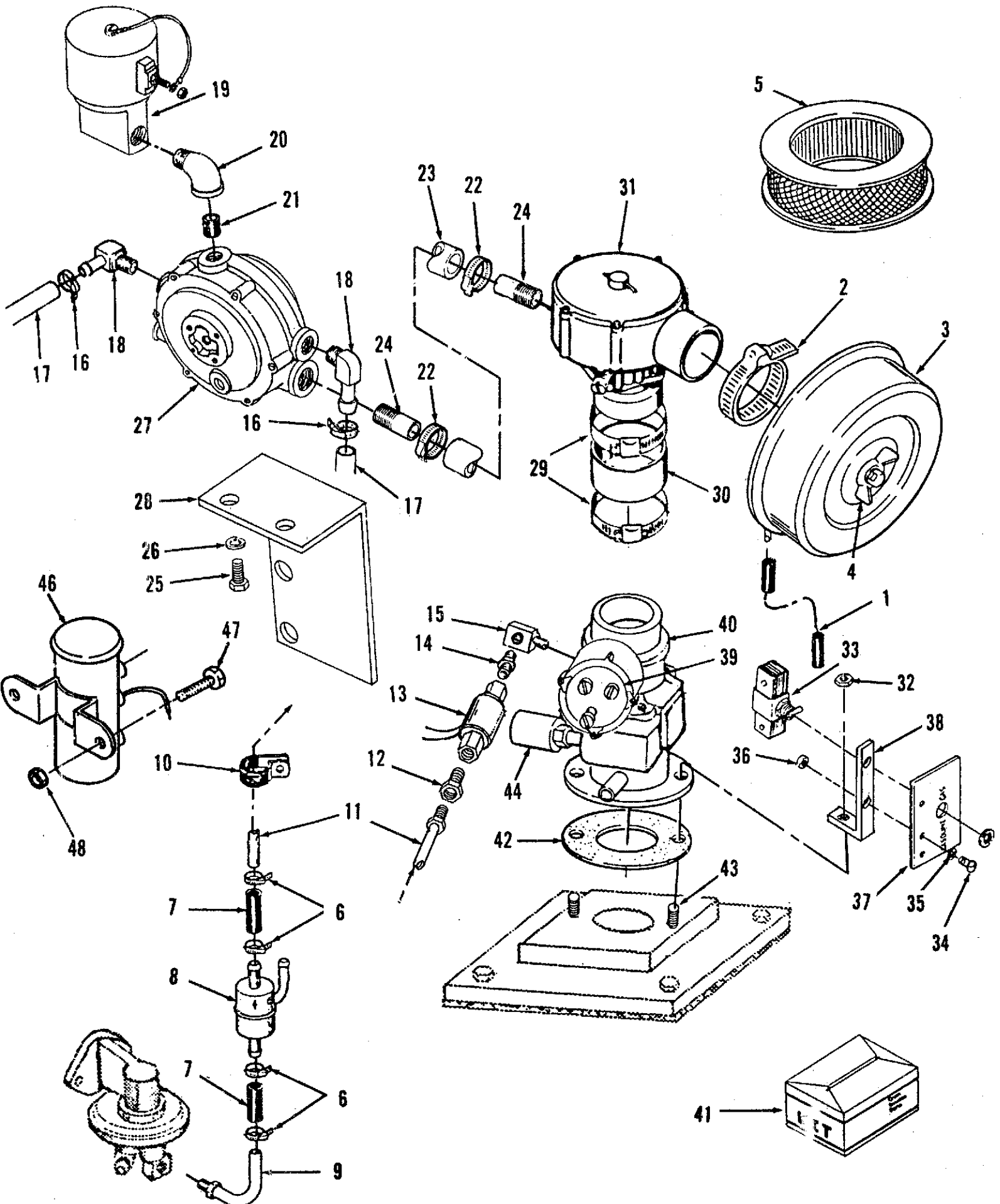
Dual Fuel System Gasoline and Natural Gas



Dual Fuel System Gasoline and Natural Gas

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0227	1	Hose, Bulk (Order by Foot) (Two Feet Required)	19	505-0102	3	Nipple, Pipe - Close
2	503-0465	1	Clamp, Hose	20	505-0132	2	Elbow, Pipe - 90 DEG
3	140-1962	1	Cleaner, Air (Includes Wing Nut and Element)	21	307-0312	1	Valve, Solenoid - 12 VDC
4	865-0020	1	Nut, Wing (1/4-20)	22	505-0021	1	Bushing, Reducer - Hex
5	140-2065	1	Element, Air Cleaner	23	505-0100	1	Nipple, Pipe - Close
6	503-0685	4	Clamp, Hose	24	148-0691	1	Mixer, Gas Vapor
7	503-0883	2	Hose, Rubber	25	870-2055	2	Nut, Self-locking - Hex Head (M8 x 1/25)
8	149-2026	1	Filter, Fuel - Gasoline	26	308-0068	1	Switch, Toggle - Fuel Selection
9			Line, Fuel	27	813-0100	2	Screw, Machine - Round Head (#10-32 x 1/2")
	149-2025	1	Mechanical Fuel Pump	28	850-0030	2	Washer, Lock - Spring (#10)
	501-0565	1	Electrical Fuel Pump	29	871-0010	2	Nut, Hex (#10-32)
10	332-1022	1	Clamp, Loop	30	308-0150	1	Plate, Mounting
11			Line, Fuel	31	306-0155	1	Bracket, Mounting
	149-2024	1	System Without Solenoid	32			Choke and Solenoid (See Separate Page for Components)
	149-2078	1	System With Solenoid	33	141-0931	1	Carburetor, Gasoline (Less Choke and Solenoid)
12	502-0018	1	Connector, Inverted Male	34	141-0944	1	Kit, Repair - Carburetor
13	307-1279	1	Valve, Solenoid - 12 VDC	35	154-0133	1	Gasket - Carburetor Mounting
14	502-0082	1	Nipple, Pipe - Hex	36	520-2205	2	Stud (M8 x 1.25 x 33MM)
15			Elbow, Pipe - 90 DEG, Brass	37	141-0951	1	Solenoid
	502-0004	1	System Without Solenoid	39	149-1541	1	Pump, Fuel (Electrical)
	502-0020	1	System With Solenoid	40	821-2035	2	Screw, Lockhead (M6 x 1 x 25)
16	503-0465	2	Clamp, Hose				
17	503-0542	1	Hose, Rubber				
18	148-0597	1	Regulator, Pressure - Gas Vapor				

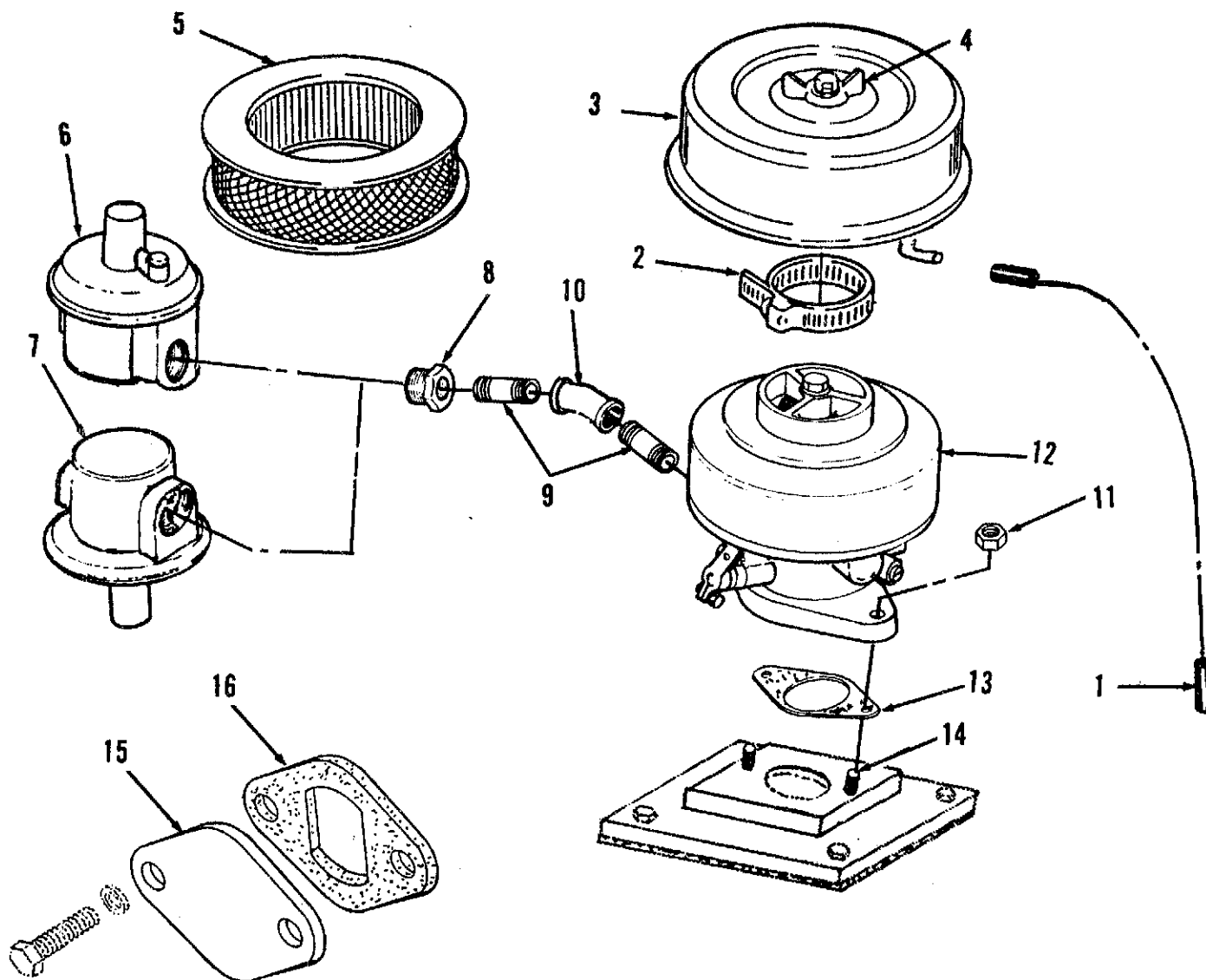
Dual Fuel System Gasoline and LPG Liquid



Dual Fuel System Gasoline and LPG Liquid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0484	1	Hose, Bulk (Order by Foot) Two Feet Required	25	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8")
2	503-0465	1	Clamp, Hose	26	850-0040	2	Washer, Lock - Spring (1/4")
3	140-1962	1	Cleaner, Air (Includes Wing Nut and Element)	27	148-0737	1	Converter/Regulator - LPG (Includes Mounting Screws)
4	865-0020	1	Nut, Wing (1/4-20)	28	148-0901	1	Bracket, Mounting
5	140-2065	1	Element, Air Cleaner	29	503-0465	2	Clamp, Hose
6	503-0685	4	Clamp, Hose	30	503-0542	1	Hose, Rubber
7	503-0883	2	Hose, Rubber	31	148-0691	1	Mixer, Gas Vapor
8	149-2026	1	Filter, Fuel - Gasoline	32	870-2055	2	Nut, Self-locking - Hex Head (M8 x 1/25)
9	149-2025	1	Mechanical Fuel Pump	33	308-0068	1	Switch, Toggle - Fuel Selection
	501-0565	1	Electrical Fuel Pump	34	813-0100	2	Screw, Machine - Round Head (#10-32 x 1/2")
10	332-1022	1	Clamp, Loop	35	850-0030	2	Washer, Lock - Spring (#10)
11	149-2078	1	Line, Fuel	36	871-0010	2	Nut, Hex (#10-32)
12	502-0018	1	Connector, Inverted Male	37	308-0150	1	Plate, Mounting
13	307-1279	1	Valve, Solenoid - 12 VDC	38	306-0155	1	Bracket, Mounting
14	502-0082	1	Nipple, Pipe - Hex	39			Choke and Solenoid (See Separate Page for Components)
15	502-0020	1	Elbow, Pipe - 90 DEG, Brass				
16	503-0183	4	Clamp, Hose	40	141-0931	1	Carburetor, Gasoline (Less Choke and Solenoid)
17	503-0386		Hose, Bulk (Order by Foot) Six feet Required	41	141-0944	1	Kit, Repair - Carburetor
18	502-0587	2	Elbow, Pipe to Hose - 90 DEG	42	154-0133	1	Gasket - Carburetor Mounting
19	307-0268	1	Valve, Solenoid - 12 VDC	43	520-2205	2	Stud (M8 x 1.25 x 33MM)
20	502-0054	1	Elbow, Pipe - Street, 90 DEG	44	141-0951	1	Solenoid
21	502-0047	1	Nipple, Pipe - Close	46	149-1541	1	Pump, Fuel (Electrical)
22	503-0183	2	Clamp, Hose	47	821-2035	2	Screw, Lockhead (M6 x 1 x 25)
23	503-1565	1	Hose, LPG - Bulk (Order by Foot) Two Feet Required	48	870-2054	2	Nut, Lockhead (M6 x 1)
24	505-0185	2	Nipple, Pipe - Half				

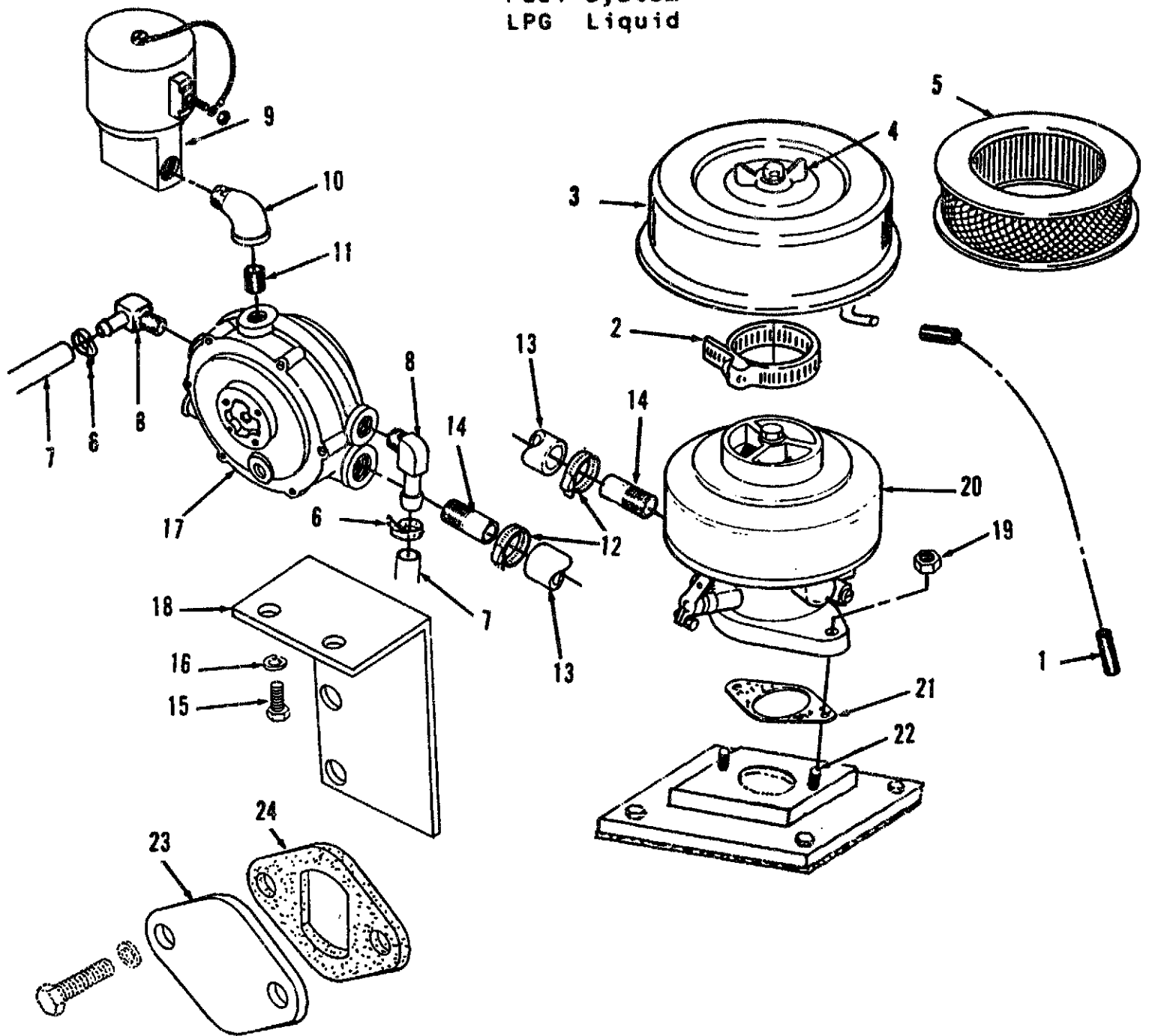
Fuel System Natural Gas or LPG Vapor



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0227	1	Hose, Bulk (Order by Foot) (Two Feet Required)
2	503-0465	1	Clamp, Hose
3	140-1962	1	Cleaner, Air (Includes Wing Nut and Element)
4	865-0020	1	Nut, Wing (1/4-20)
5	140-2065	1	Element, Air Cleaner
6	148-0597	1	Regulator, Pressure - Gas Vapor (3/4 NPT)
7	148-0637	1	Regulator, Pressure - LPG Vapor (3/4 NPT)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	505-0021	1	Bushing, Reducer - Hex
9	505-0106	2	Nipple, Pipe
10	505-0190	1	Elbow, Pipe - 45 DEG
11	870-2055	2	Nut, Self-locking - Hex Head (M8 x 1.25)
12	148-0763	1	Carburetor, Gas Vapor
13	145-0120	1	Gasket - Carburetor Mounting
14	520-2205	1	Stud (M8 x 1.25 x 33MM)
15	149-2008	1	Cover, Fuel Pump Mount
16	149-2007	1	Gasket

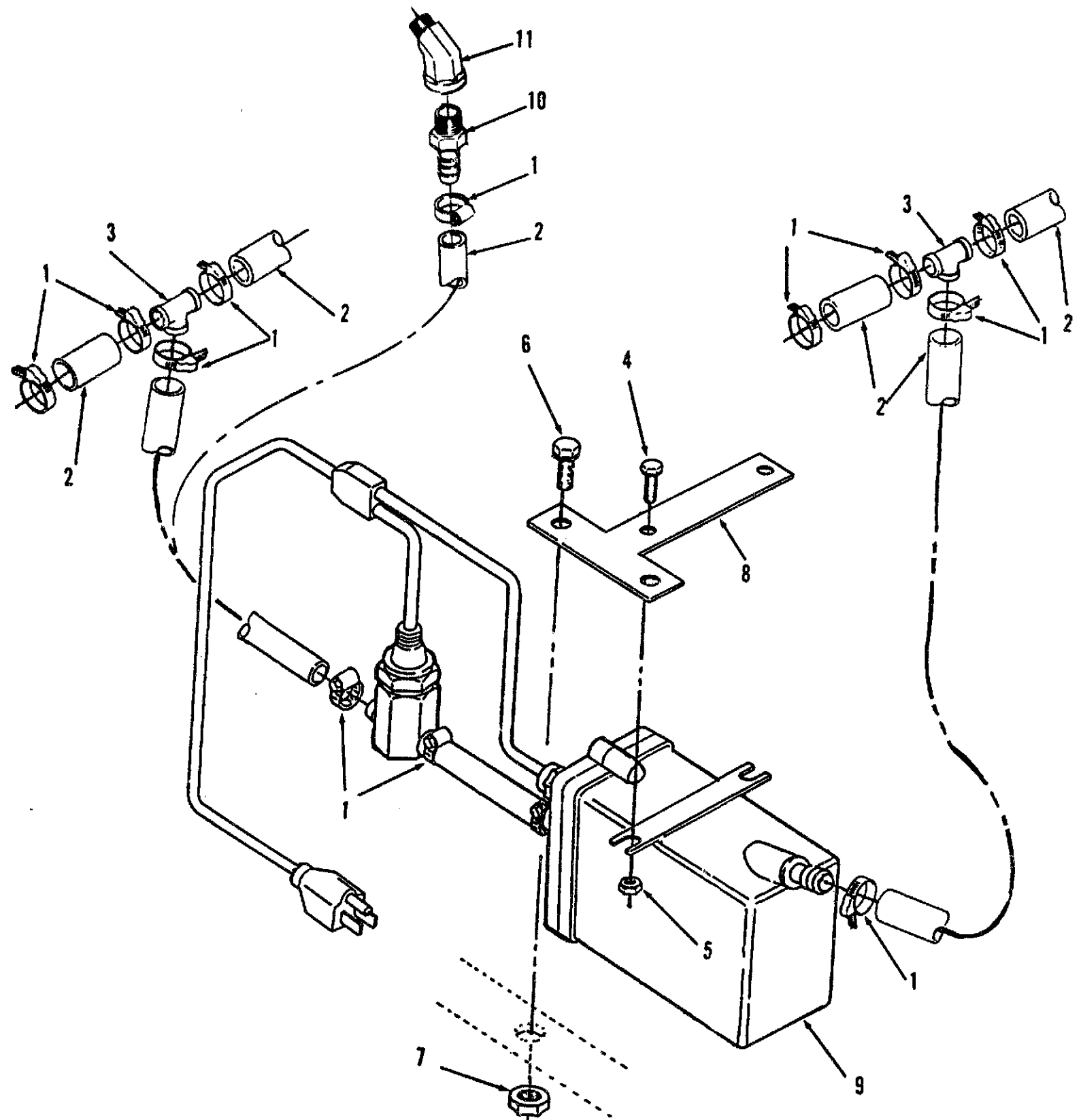
Fuel System
LPG Liquid



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0227	1	Hose, Bulk (Order by Foot) Two Feet Required
2	503-0465	1	Clamp, Hose
3	140-1962	1	Cleaner, Air (Includes Wing Nut and Element)
4	865-0020	1	Nut, Wing (1/4-20)
5	140-2065	1	Element, Air Cleaner
6	503-0183	4	Clamp, Hose
7	503-0386		Hose, Bulk (Order by Foot) Six feet Required
8	502-0587	2	Elbow, Pipe to Hose - 90 DEG
9	307-0268	1	Valve, Solenoid - 12 VDC
10	502-0054	1	Elbow, Pipe - Street, 90 DEG
11	502-0047	1	Nipple, Pipe - Close
12	503-0183	2	Clamp, Hose
13	503-1565	1	Hose, LPG - Bulk (Order by Foot) Two Feet Required

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	505-0185	2	Nipple, Pipe - Half
15	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8")
16	850-0040	2	Washer, Lock - Spring (1/4")
17	148-0737	1	Converter/Regulator - LPG (Includes Mounting Screws)
18	148-0901	1	Bracket, Mounting
19	870-2055	2	Nut, Self-locking - Hex Head (M8 x 1.25)
20	148-0763	1	Carburetor, Gas Vapor
21	145-0120	1	Gasket - Carburetor Mounting
22	520-2205	1	Stud (M8 x 1.25 x 33MM)
23	149-2008	1	Cover, Fuel Pump Mount
24	149-2007	1	Gasket

Heater - Engine Coolant

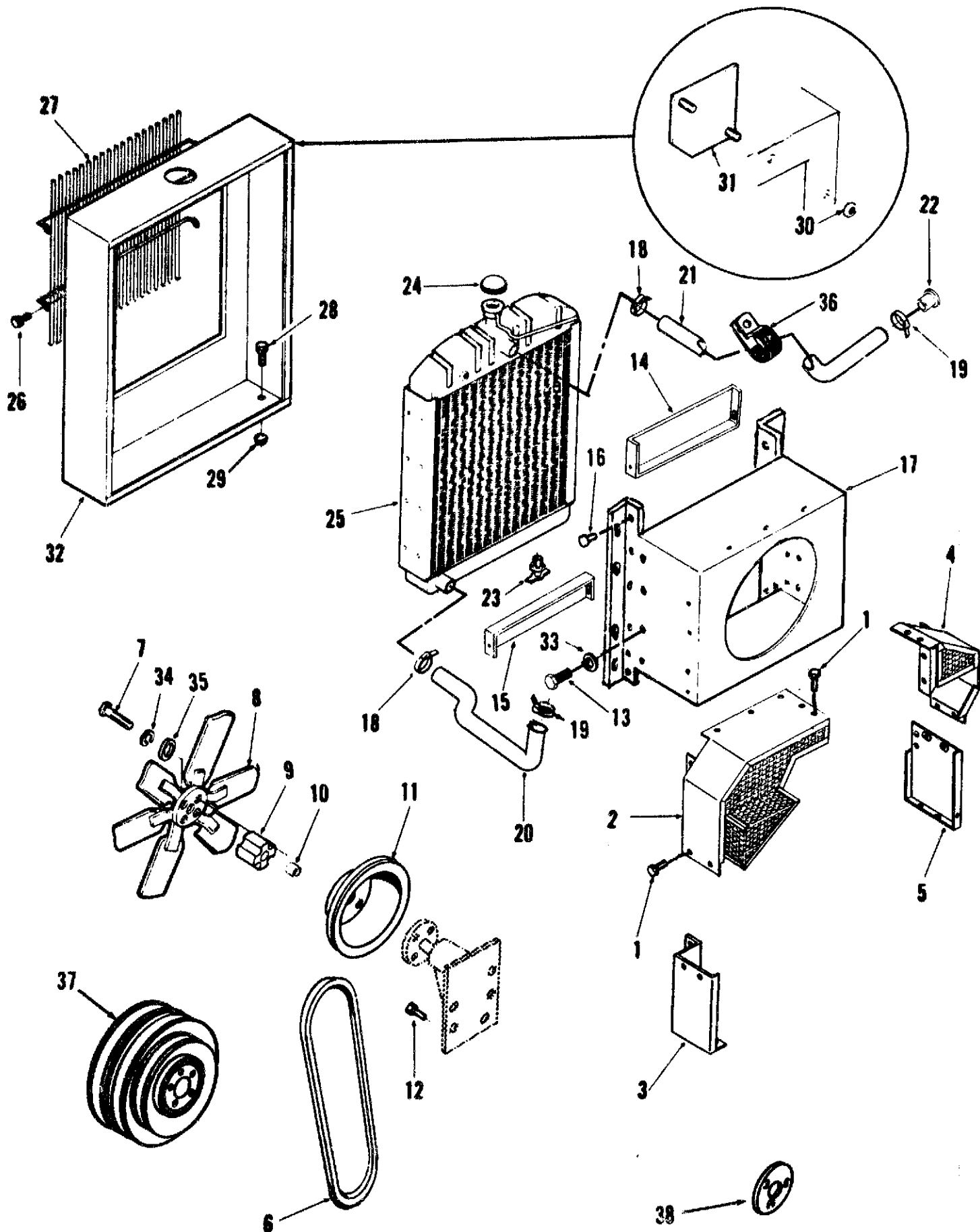


Heater - Engine Coolant

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-0183	14	+Clamp, Hose	7	870-2056	2	Nut, Self-locking - Hex
2	503-0386		Hose (Bulk) Order by Foot, 6 Feet Required	8	130-2650	1	(M10 x 1.5)
3	502-0870	1	+Tee, Hose	9			Plate, Mounting - Heater
4	821-2033	2	Screw, Self-locking - Hex Head (M6 x 1 x 16MM)		333-0255-01	1	Heater, Electrical - Engine
5	870-2054	2	Nut, Self-locking - Hex (M6 x 1)	10	502-0613	1	Coolant
6	821-2061	2	Screw, Self-locking - Hex Head (M10 x 1.5 x 25MM)	11	502-0156	1	750 Watt, 120 VAC
							*Connector, Hose
							#Elbow, Pipe - Street
							45 Degree

- * - Parts Used Beginning May 1987.
- + - Some parts discontinued usage May 1987 on
Inlet Hookup.
- # - Used May 1987 Thru Nov. 1988

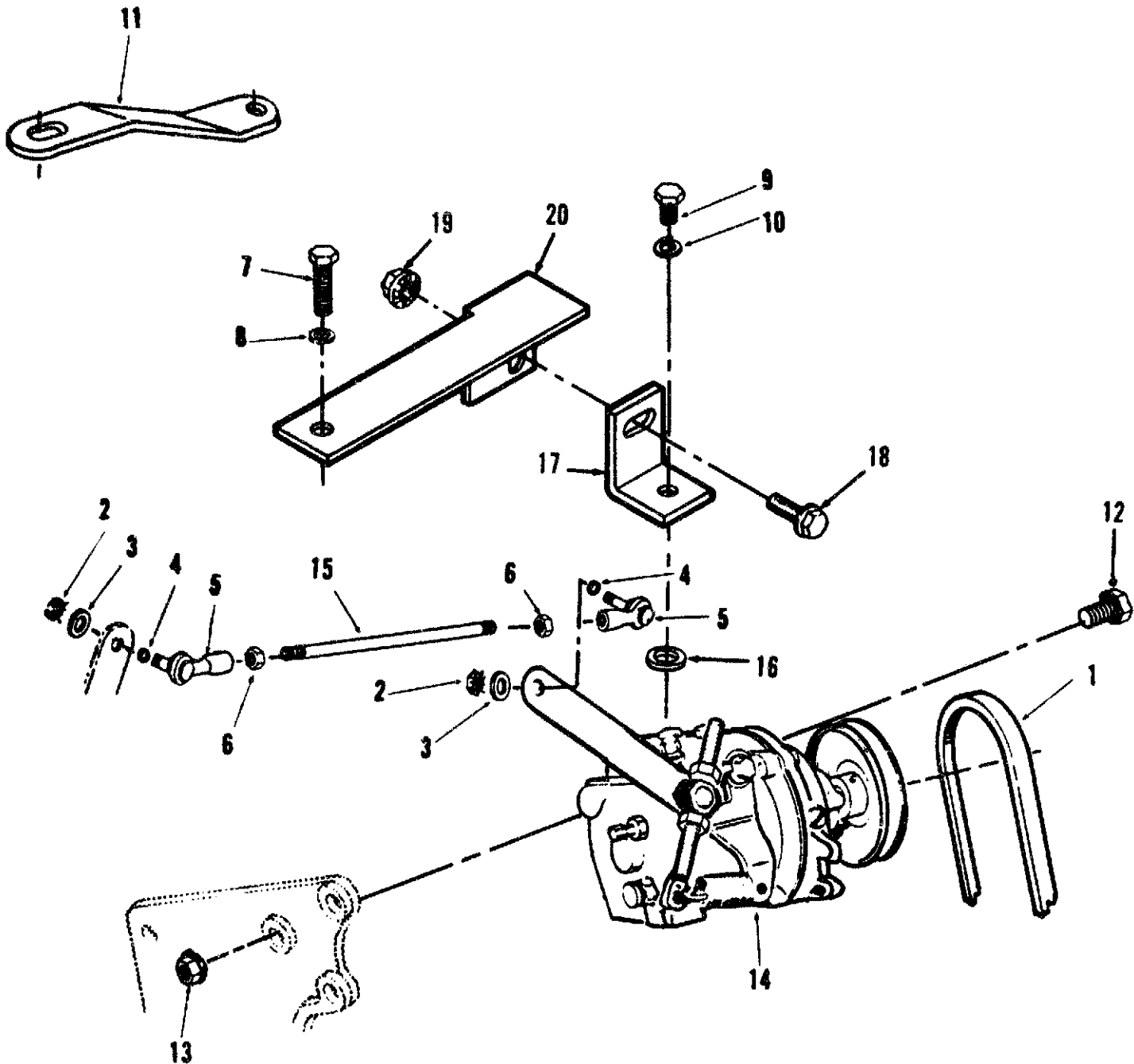
Cooling System - Radiator



Cooling System - Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-2033	22	Screw, Self-locking - Hex Head (M6 x 1 x 16MM)	21	503-1370	1	Hose, Radiator - Upper
2			Guard, Belt - Right Side	22	130-2610	1	Insert, Reducing - Hose
	130-2595	1	Spec A-D	23	504-0003	1	Cock, Drain (1/4 NPT)
	130-3993	1	Spec E	24	130-2003	1	Cap, Radiator (10 PSI)
3	130-2591	1	Post, Belt Guard - Right Side	25	130-1817	1	Radiator
4	130-2594	1	Guard, Belt - Left Side	26	821-2033	8	Screw, Self-locking - Hex Head (M6 x 1 x 16MM)
5	130-2590	1	Post, Belt Guard - Left Side	27	405-3182	1	Grille
6	511-0051	1	Belt, Drive - V (Fan)	28	821-2061	5	Screw, Self-locking - Hex Head (M10 x 1.5 x 25MM)
7	800-0037	4	Screw, Self-locking - Hex Head (5/16-18 x 3")	29	870-2056	5	Nut, Self-locking - Hex Head (M10 x 1.5)
8	130-2148	1	Fan, Cooling	30	870-2054	8	Nut, Self-locking - Hex Head (M6 x 1)
9	130-2578	1	Spacer, Fan	31	405-3240	4	Support, Corner
10	130-2596	1	Insert, Fan Spacer	32	405-3201	1	Panel, Housing - Front
11	512-0167	1	Pulley, Drive - Fan	33	850-2008	16	Washer, Lock - Spring (M8)
12	821-2070	2	Screw, Self-locking - Hex Head (M10 x 1.5 x 70MM)	34	850-0045	4	Washer, Lock - Spring (5/16")
13	800-2050	16	Screw, Cap - Hex Head (M8 x 1.25 x 10MM)	35	526-0115	4	Washer, Flat (5/16")
14	130-2580	1	Insert - Fan Shroud (Upper)	36	425-0183	1	Clamp, Loop
15	130-2579	1	Insert - Fan Shroud (Lower)		821-0005	1	Screw, Self-locking - Hex Head (#10-32 x 1/2")
16	821-2032	21	Screw, Self-locking - Hex Head (M6 x 1 x 12MM)	37			Pulley, Drive - Crankshaft
17	130-2577	1	Shroud, Fan		512-0177	1	Mechanical Fuel Pump
18	503-0365	2	Clamp, Hose		512-0179	1	Electrical Fuel Pump
19	503-0429	2	Clamp, Hose	38	130-3761	1	Spacer, Pulley - Water Pump
20	503-1369	1	Hose, Radiator - Lower				

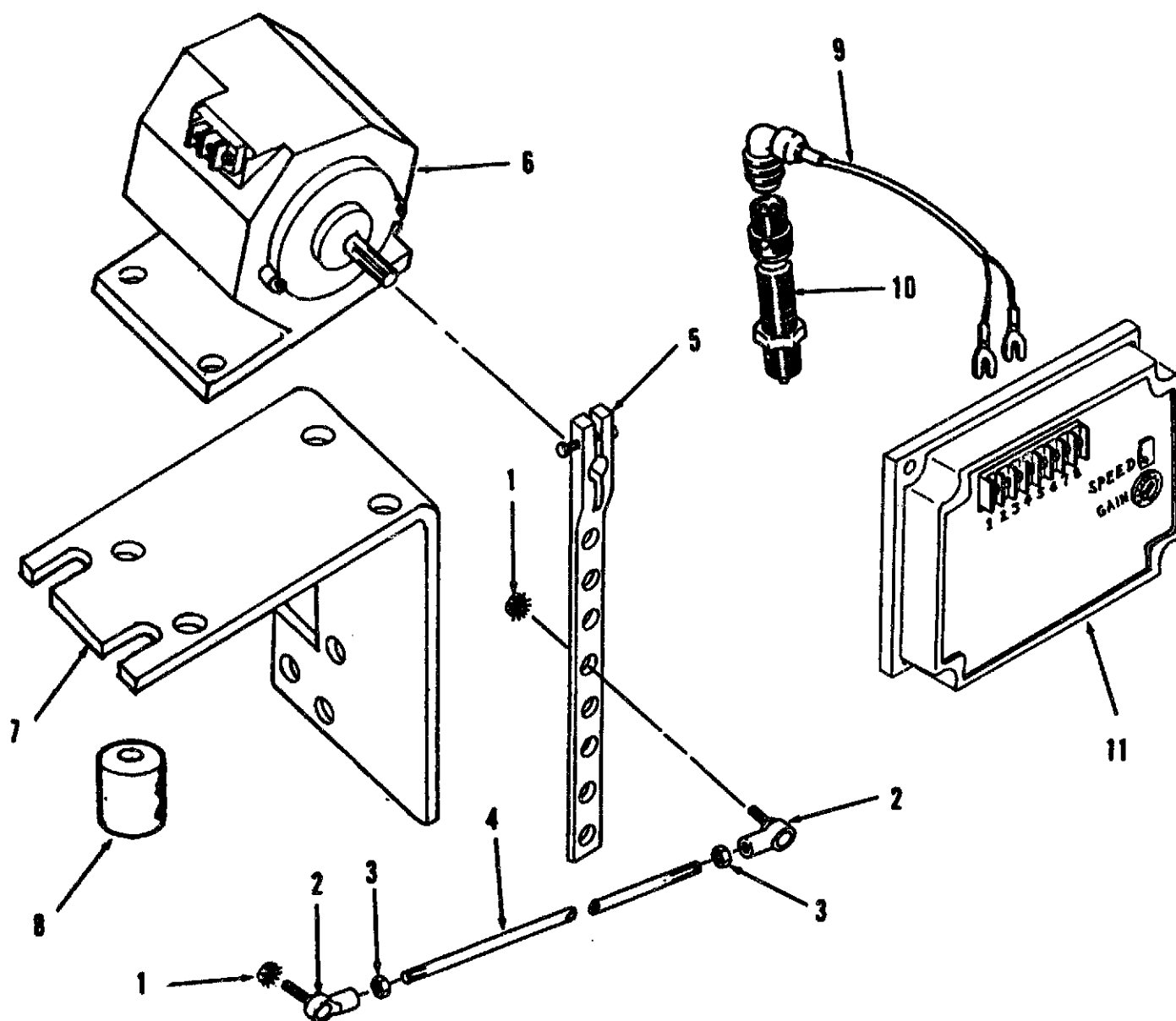
Governor - Mechanical



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	511-0039	1	Belt, Drive - V
2	870-0131	2	Nut, Self-locking - Hex With ET Lockwasher (#10-32)
3	526-0008	4	Washer, Flat (#10)
4	150-2101	2	Sleeve - Governor
5	150-2099	2	Joint, Ball
6	870-0053	4	Nut, Hex (#10-32)
7	800-2058	1	Screw, Cap - Hex Head (M8 x 1.25 x 25MM)
8	526-2103	1	Washer, Flat (M8)
9	800-0003	1	Screw, Cap - Hex Head (1/4-20 x 1/2")
10	850-0040	1	Washer, Lock - Spring (1/4")
11	150-2053	1	Brace, Governor (Used Thru 1987) (OBSOLETE) For Replacement use Items 17-20)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
12	821-2062	3	Screw, Self-locking - Hex Head (M10 x 1.5 x 30MM)
13	870-2056	3	Nut, Self-locking - Hex Head (M10 x 1.5)
14	151-0607	1	Governor (Includes Pulley)
15	520-0952	1	Stud
16	526-0065	1	Washer, Flat - Copper
17	150-2254	1	Bracket, Brace - Governor
18	821-2046	1	Screw, Locking - Flange (M8 x 1.25 x 20)
19	870-2055	1	Nut, Locking - Flange (M8 x 1.25)
20	150-2253	1	Brace, Governor (Use Beginning 1988)

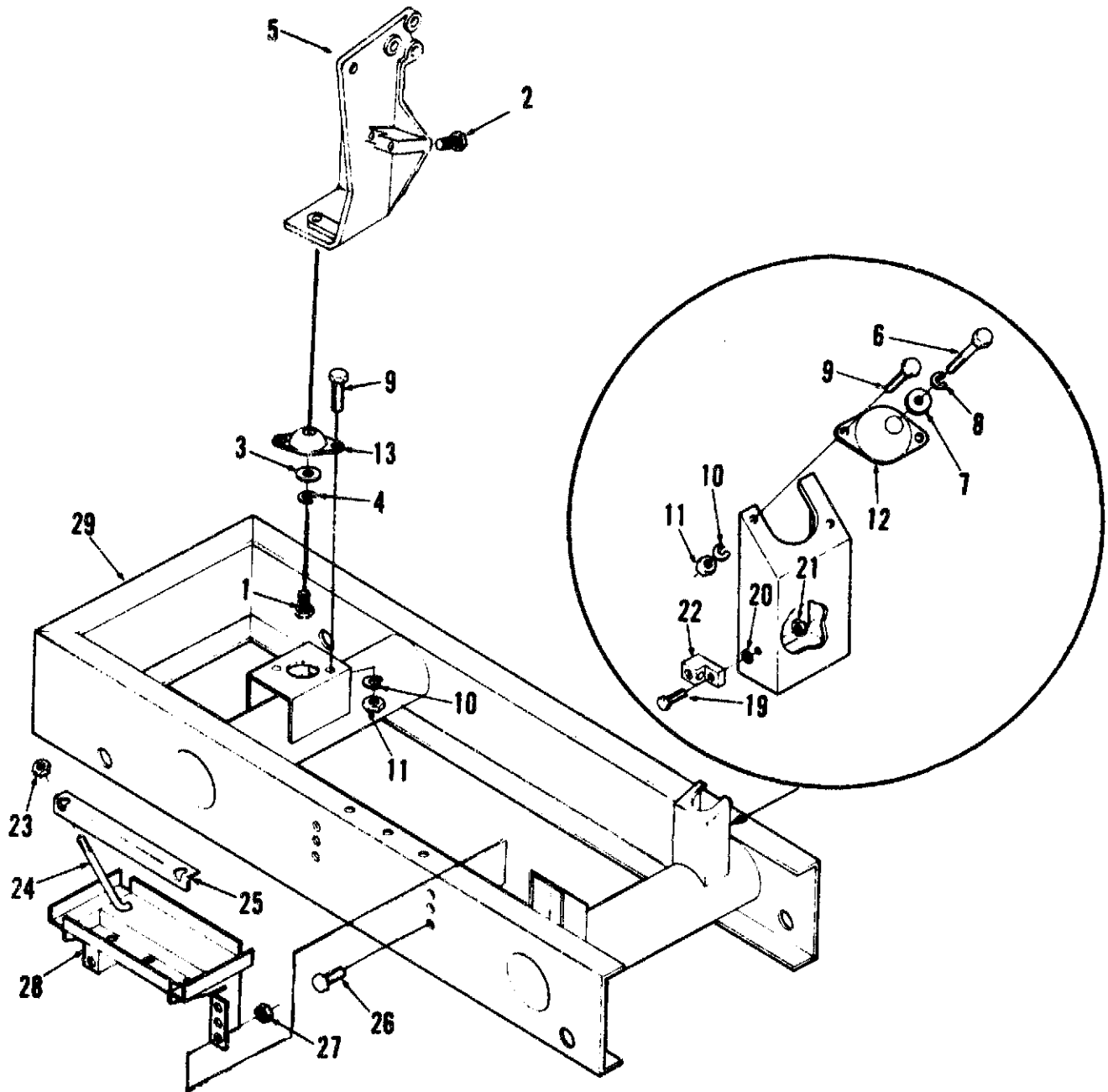
Governor - Electric



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0131	2	Nut, Hex with ET Lockwasher (#10-32)
2	150-0939	2	Joint, Ball
3	870-0053	2	Nut, Hex (#10-32)
4	150-2166	1	Rod, Control
5	151-0567	1	Arm, Governor
6	151-0566	1	Actuator, Governor
	800-2060	4	Screw, Cap - Hex Head (M8 x 1.25 x 35MM)
	850-2008	4	Washer, Lock - Spring (M8)
	860-2008	4	Nut, Hex (M8 x 1.25)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	150-2165	1	Bracket, Mounting
	800-2086	3	Screw, Cap - Hex Head (M10 x 1.5 x 25MM)
	800-2062	2	Screw, cap - Hex Head (M8 x 1.25 x 45MM)
	526-2100	2	Washer, Flat (M8)
8	370-4024	2	Spacer
9	338-1765-03	1	Cable, Magnetic Pickup
10	151-0603-03	1	Sensor, Speed - Magnetic
11	151-0605	1	Controller, Governor

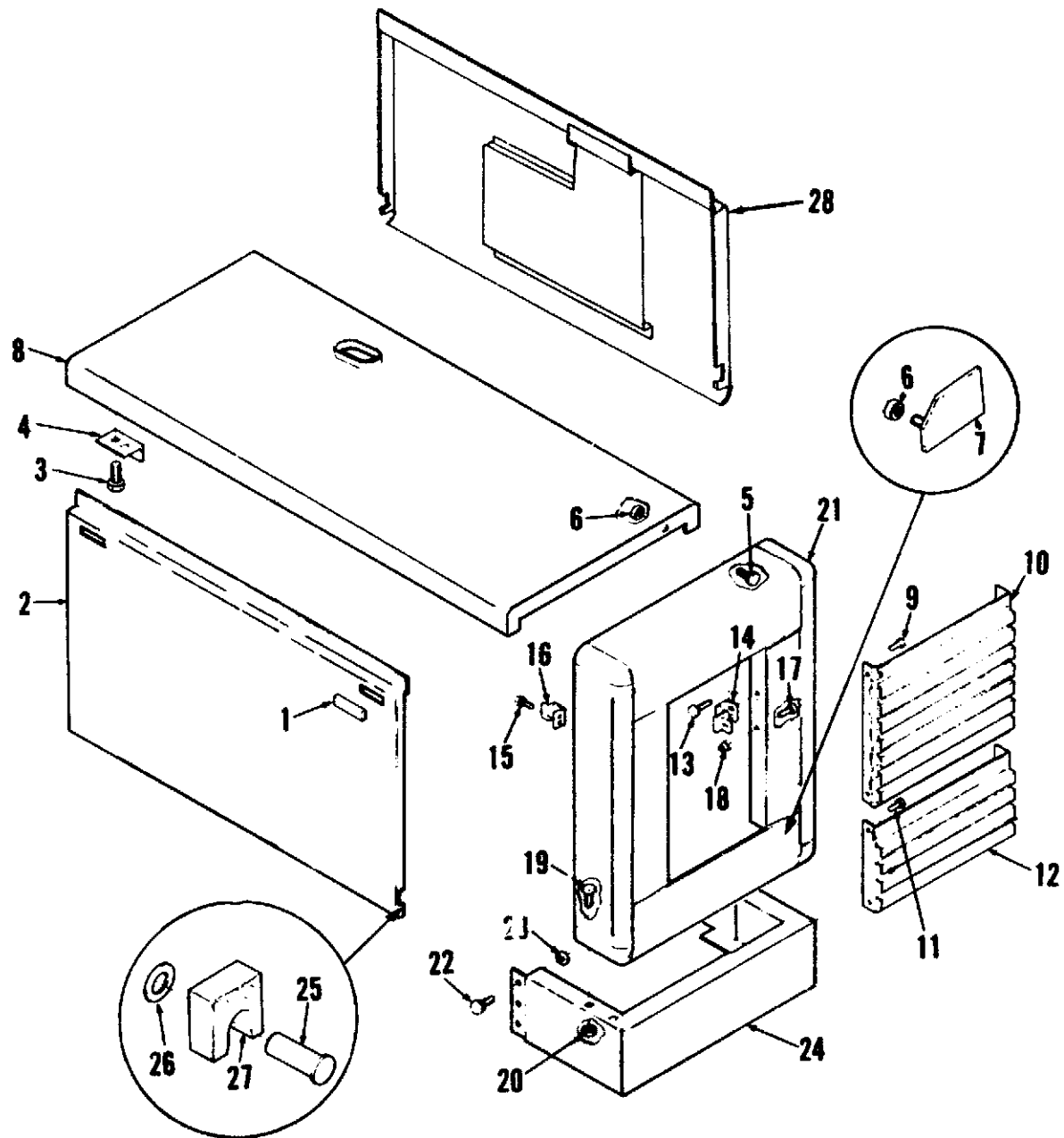
Chassis



Chassis

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-2186	1	Screw, Cap - Hex Head (M16 x 2 x 120MM)	12	402-0540	2	Mount, Vibration - Generator
2			Screw, Self-locking - Hex Head	13	402-0540	1	Mount, Vibration - Engine
	821-2068	1	M10 x 1.5 x 60MM	19	821-2036	1	Screw, Self-locking - Hex Head (M6 x 1 x 30MM)
	821-2070	1	M10 x 1.5 x 70MM	20	853-2006	1	Washer, Lock - EIT (M6)
3	526-0242	1	Washer, Flat (M16)	21	870-2054	1	Nut, Self-locking - Hex Head (M6 x 1)
4	850-2066	1	Washer, Lock - Spring (M16)	22	332-1473	1	Terminal, Lug - Ground
5			Bracket, Mounting - Engine	23	870-2054	2	Nut, Self-locking - Hex Head (M6 x 1)
	403-2440	1	Spec A and B	24	416-0828	2	Rod, J Hook (M6 x 1)
	403-2648	1	Begin Spec C	25	416-0830	1	Bracket, Holddown - Battery
6	800-2186	2	Screw, Cap - Hex Head (M16 x 2 x 120MM)	26	821-2047	9	Screw, Self-locking - Hex Head (M8 x 1.25 x 25MM)
7	526-0242	2	Washer, Flat (M16)	27	870-2055	9	Nut, Self-locking - Hex Head (M8 x 1.25)
8	850-2066	2	Washer, Lock - Spring (M16)	28	416-0847	1	Tray, Battery
9	800-2111	6	Screw, Cap - Hex Head (M12 x 1.75 x 25MM)	29	403-2275	1	Base, Skid
10	850-2012	6	Washer, Lock - Spring (M12)				
11	860-2010	6	Nut, Hex (M12 x 1.75)				

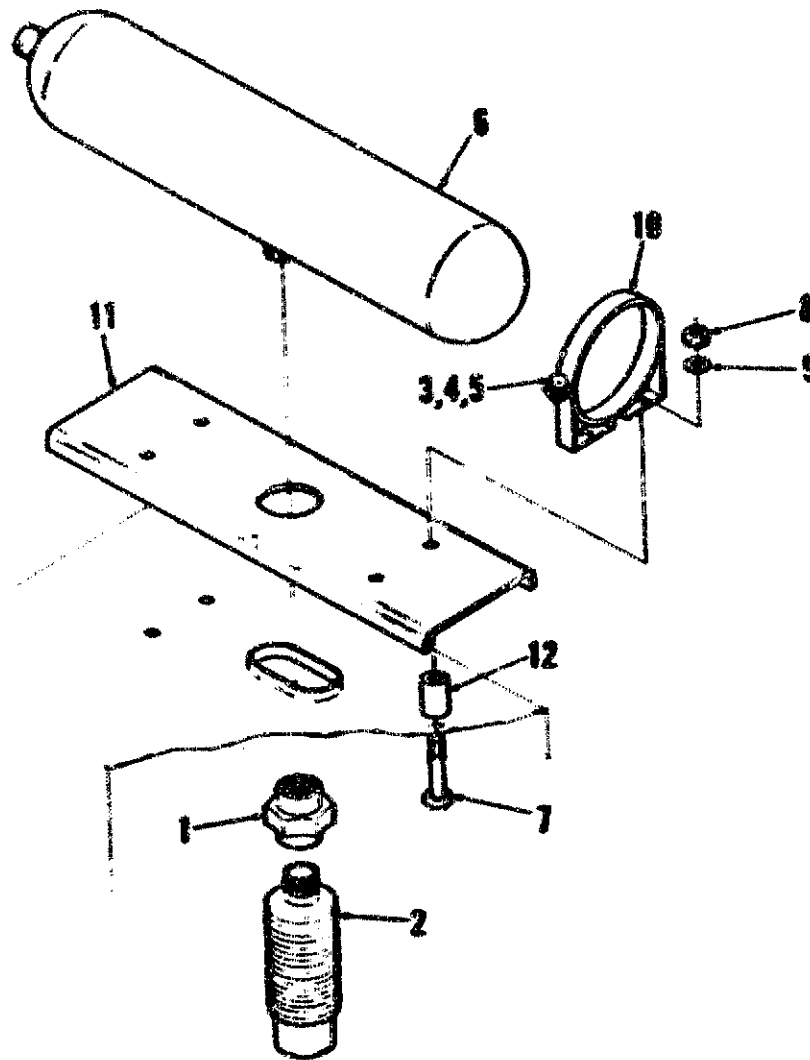
Set Housing



Set Housing

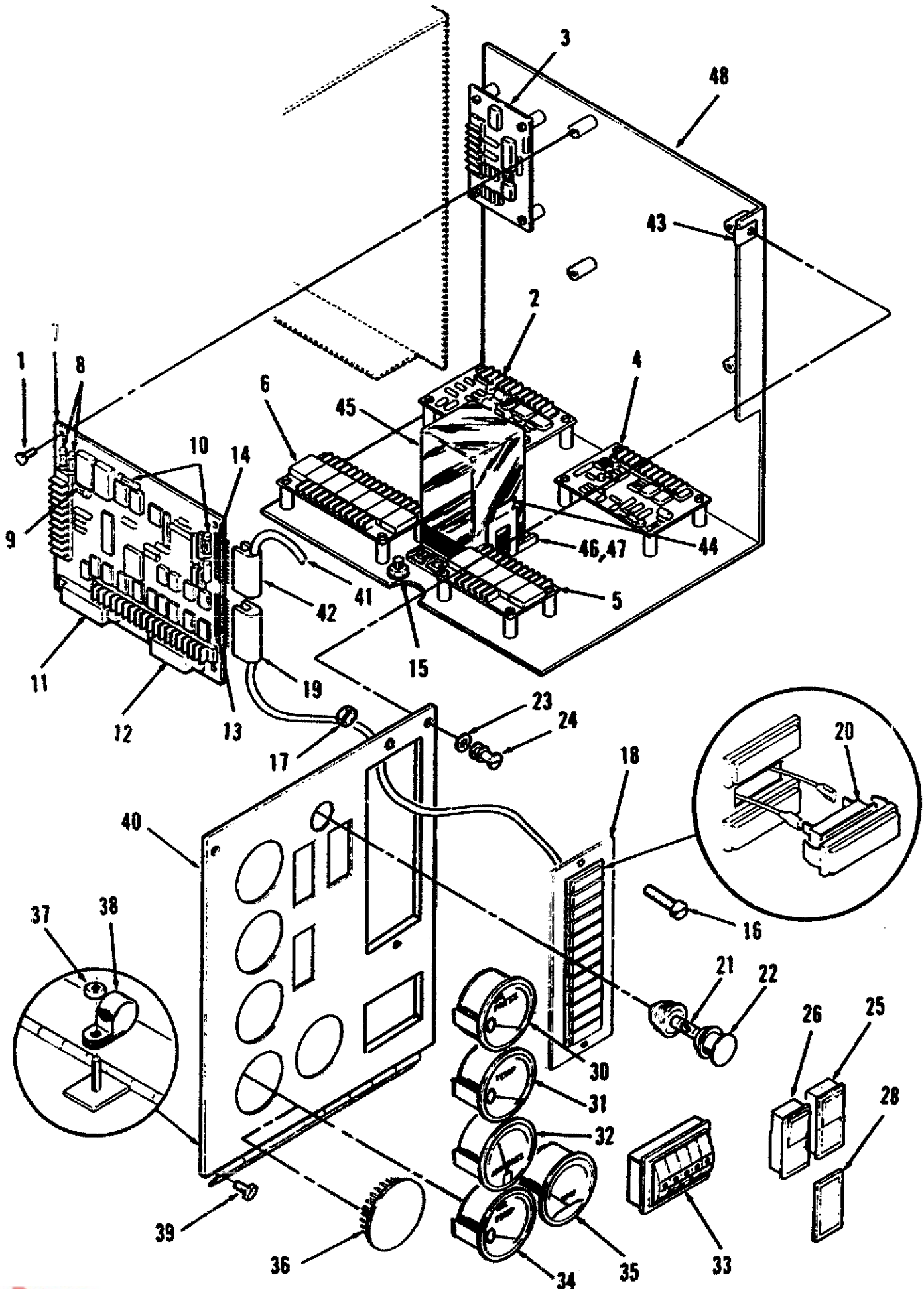
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	406-0561	4	Latch, Door	14	406-0555	1	Latch
2	405-3345	1	Panel, Door (Does NOT include latches and pivot clips)	15	821-2033	8	Screw, Self-locking - Hex Head (M6 x 1 x 16MM)
3	821-2033	4	Screw, Self-locking - Hex Head (M6 x 1 x 16MM)	16	406-0553	4	Catch
4	406-0552	2	Latch	17	821-2033	6	Screw, Self-locking - Hex Head (M6 x 1 x 16MM)
5	821-2033	2	Screw, Self-locking - Hex Head (M6 x 1 x 16MM)	18	870-2026	6	Nut, Weld (Used as pivot pin)
6	870-2054	18	Nut, Self-locking - Hex Head (M6 x 1)	19	821-2061	5	Screw, Self-locking - Hex Head (M10 x 1.5 x 25MM)
7	405-3240	8	Support, Corner - Housing	20	870-2056	5	Nut, Self-locking - Hex Head (M10 x 1.5)
8	405-3344	1	Panel, Top - Housing	21	405-3242	1	Panel, Housing - Rear
9	822-3073	3	Screw, Machine - Pan Head (M4 x 0.7 x 10MM)	22	821-2061	6	Screw, Self-locking - Hex Head (M10 x 1.5 x 25MM)
10	405-2677	1	Cover, Control (Does NOT include latches and pivot clips)	23	870-2056	6	Nut, Self-Locking - Hex Head (M10 x 1.5)
11	821-2033	4	Screw, Self-locking - Hex Head (M6 x 1 x 16MM)	24	403-2168	1	Base, Skid - Rear
12	405-3082	1	Grille	25	815-0150	8	Rivet, Drive Pin
13	821-2020	2	Screw, Self-locking - Hex Head (M5 x 0.8 x 12MM)	26	526-0003	8	Washer, Flat (5/16")
				27	405-1872	4	Clip, Pivot - Plastic
				28	405-3626	1	Panel, Door with Heatshield (Does NOT include latches and Pivot Clips)

Exhaust Muffler



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-0454	1	Union, Pipe	7	800-2067	4	Screw, Cap - Hex Head (M8 x 1.25 x 70MM)
2	155-2007	1	Tube, Exhaust - Flexible	8	870-2055	4	Nut, Self-locking - Hex Head (M8 x 1.25)
3	800-0036	2	Screw, Cap - Hex Head (5/16-18 x 2-3/4")	9	526-2100	8	Washer, Flat (M8)
4	526-0113	4	Washer, Flat (5/16")	10	140-0649	2	Band, Mounting
5	870-0257	2	Nut, Self-locking - Hex Head (5/16-18)	11	155-0978	1	Shield, Heat
6	155-0988	1	Muffler, Exhaust	12	155-1430	4	Spacer, Sleeve

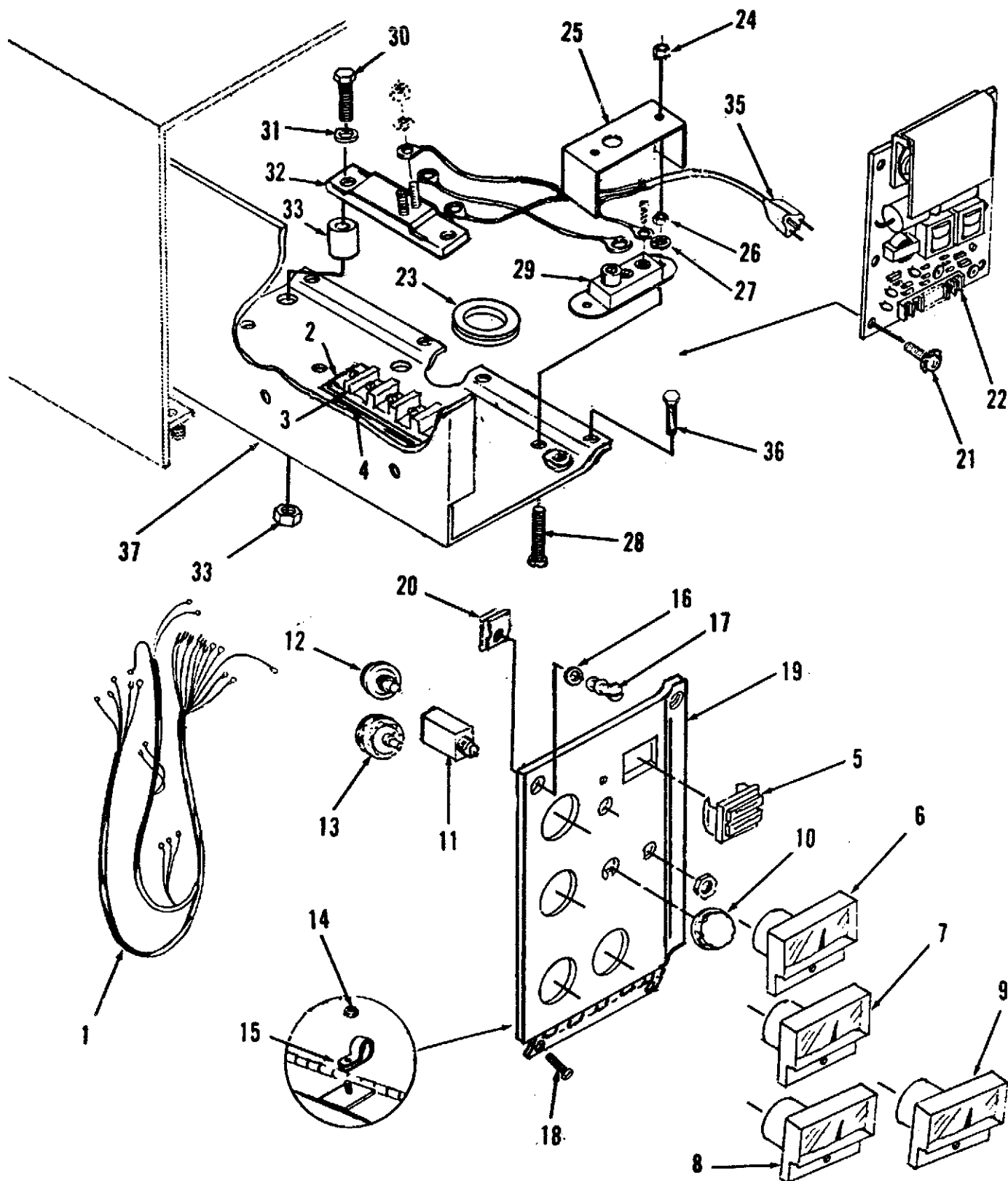
Engine Control



Engine Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	20	Screw, Machine - Round Head with IT Lock Washer (#6-32 x 1/2")	19	323-1310	1	Housing, Connector - 13 Pin (J3)
2	300-2897	1	Board - Time Delay, Start/Stop 12 VDC (A15)	20	323-1302	13	Contact, Pin
3			Board - Magnetic Sensor, Start Disconnect/Over Speed Sensor (A16)	20	322-0369-01	1	Lamp, Incandescent - 1/3 Watt 14 VDC
	300-2901	1	Standard - 12 VDC	21	322-0004	1	Lamp, Incandescent (DS11) 14 VDC
	300-2902	1	Precision - 12 VDC	22	322-0361	1	Holder, Lamp
4	300-2905	1	Board - Over-Under Voltage Sensor 12 VDC (A17)	23	406-0334	1	Clip - Fastener
5	300-2855	1	Board - 5 Relay 12 VDC (A13)	24	406-0333	1	Stud - Fastener
6	300-2862	1	Board - 7 Relay 12 VDC (A14)	25	308-0785	1	Switch, Push - Reset/Panel Lamp (S11)
7			Board - Engine Monitor (A11) (Includes Fuses and Connectors)	26	308-0784	1	Switch, Push - Run/Stop/Remote (S12)
	300-2807	1	12 VDC, 2 Light	28	301-6257	1	Cover - Switch Mounting Hole
	300-2811	1	12 VDC, 12 Light	30	193-0352	1	Gauge, Pressure - Oil (M11)
8	321-0270	2	Fuse, Cartridge - 20 Amp (F1, F2)	31	193-0351	1	Gauge, Temperature - Water (M12)
9	321-0231	1	Fuse, Cartridge - 15 Amp (F3)	32	302-1790	1	Ammeter - DC (M13)
10	321-0094	2	Fuse, Cartridge - 5 Amp (F4, F5)	33	302-0885	1	Meter, Totalizing - Time (M14)
11	323-1305	1	Connector - 8 Pin (P1)	34	193-0330	1	Gauge, Temperature - Oil (M15)
12	323-1303	1	Connector - 6 Pin (P2)	35	302-1715	1	Tachometer (M16)
13	323-1309	1	Connector - 13 Pin (P3)	36	517-0221	1	Plug, Button
14	323-1307	1	Connector - 12 Pin (P4)	37	870-0131	1	Nut, Self-locking - Hex with ET Lock Washer (#10-32)
15			Terminal, Ground (Includes Nut and Lock Washer)	38	322-0052	1	Clamp, Loop
	871-0015	1	Nut, Hex (1/4-20)	39	821-0009	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 3/8")
	853-0013	1	Washer, Lock - ET (1/4")	40			Door, Control
16	815-0385	2	Screw, Machine - Round Head, Black (#6-32 x 1/2")		301-8612-01	1	With 4 Gauge Holes
17	870-0183	2	Nut, Self-locking - Hex with ET Lock Washer (#6-32)		301-8612-02	1	With 3 Gauge Holes
18			Module, Indicator - Fault (A12) (Includes Connector)	41	338-1795	1	Harness, Wiring - DC (Includes Connector)
	322-0358-01	1	12 VDC, 2 Light	42	323-1308	1	Housing, Connector - 12 Pin (J4)
	322-0360-01	1	12 VDC, 12 Light		323-1302	12	Contact, Pin
	815-0385	2	Screw, Machine - Round Head, Black (#6-32 x 1/2")	43	406-0332	1	Receptacle - Fastener
	870-0183	2	Nut, Self-locking - Hex with ET Lock Washer (#6-32)	44	307-1987	2	Clip - Relay
				45	307-1058	1	Relay 12 VDC (K11)
				46	815-0544	2	Screw, Machine - Round Head with IT Lock Washer (#6-32 x 1/2")
				47	323-0804	1	Socket, Relay
				48	301-8615	1	Tray, Control

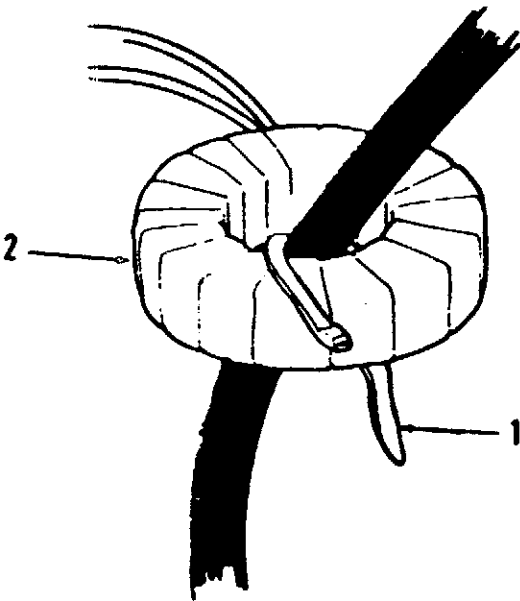
Generator Control



Generator Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring - (Includes Terminal Block)	19			Door, Control
	338-1854	1	Control with Meters		301-8611-01	1	With 4 Meter Holes
	338-1855	1	Control without Meters		301-8611-03	1	With 3 Meter Holes
2	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")		301-8611-02	1	With No Meter Holes
3	332-0607	1	Block, Terminal (TB1)	20	406-0332	1	Receptacle - Fastener
4	332-2723	1	Strip, Marker	21	815-0544	6	Screw, Machine - Round Head with IT Lock Washer (#6-32 x 1/2)
5	322-0363	1	Light, Indicator - Dual (DS21, DS22)	22	300-2880	1	Regulator, Voltage (VR21)
6	302-1148	1	Voltmeter (M21)	23	508-0051	1	Grommet
7	302-1147	1	Ammeter (M22) 0-75/150 Amp	24	870-0183	2	Nut, Self-locking - Hex with ET Lock Washer (#6-32)
8	302-1720	1	Meter, Frequency (M23)	25	301-1886	1	Cover, Thermostat
9		1	Wattmeter (M24) (See Separate page for Components)	26	860-0006	2	Nut, Hex (#6-32)
10	303-0032	1	Knob	27	854-0006	2	Washer, Lock - IT (#6)
11			Breaker, Circuit (CB21)	28	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")
	320-1121	1	Standard	29	309-0128	1	Thermostat - Adjustable
	320-1438	1	With Aux Contact	30	800-0034	1	Screw, Cap - Hex Head (5/16-18 x 2-1/4")
12	303-0261	1	Rheostat (R21)	31	526-0113	2	Washer, Flat (5/16")
13	308-0284	1	Switch, Rotary (S21)	32	333-0151	1	Heater, Electrical - 75 Watt, 120 VAC; 300 Watt, 240 VAC (HR1)
14	870-0131	1	Nut, Self-locking - Hex with ET Lock Washer (#10-32)	33	130-1107	2	Spacer, Sleeve
15	332-0052	1	Clamp, Loop	34	870-0257	2	Nut, Self-locking - Hex Washer Head (5/16-18)
16	406-0334	2	Clip - Fastener	35	335-0161	1	Cable, Electrical
17	406-0333	2	Stud - Fastener	36	821-0004	4	Screw, Self-locking - Hex Washer Head (#10-32 x 5/16")
18	821-0009	2	Screw, Self-locking - Hex Washer Head (1/4-20 x 3/8")	37	301-8614	1	Tray, Control

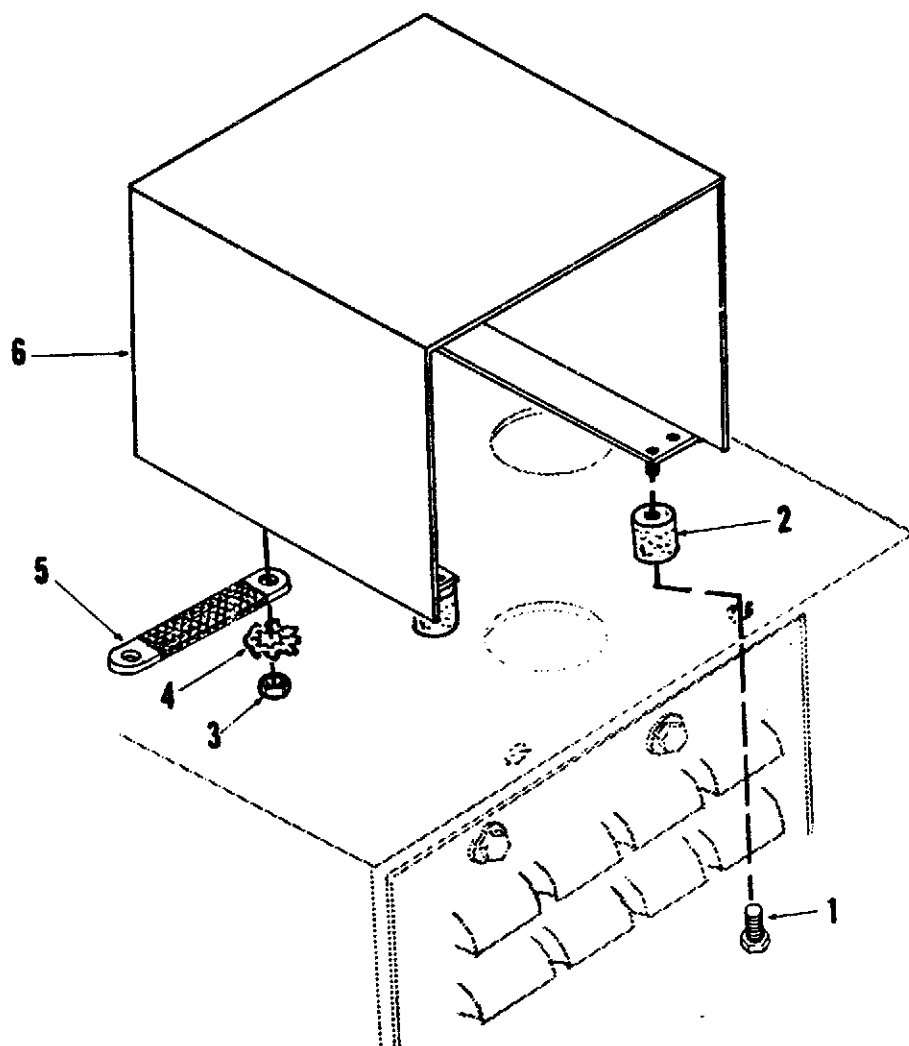
Current Transformer



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-0941	6	Tie, Cable	2	302-1365	3	Transformer, Current

NOTE: Mounting Method, Use cable ties to secure Transformers to Generator Leads.

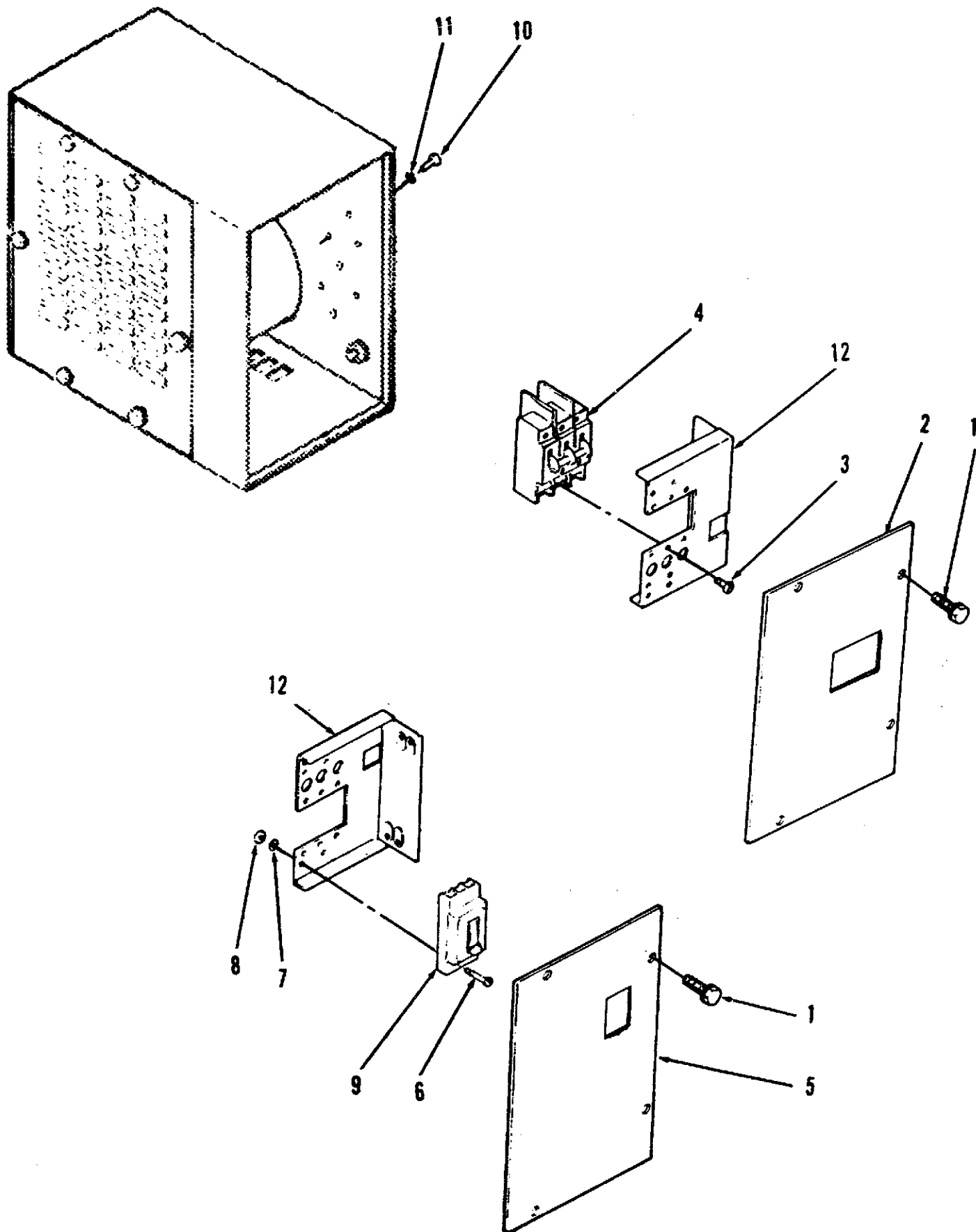
Control Box



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0014	4	Screw, Self-locking - Hex Head (5/16-18 x 1/2")
2	402-0527	4	Mount, Vibration
3	862-0015	1	Nut, Hex (5/16-18)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	853-0008	1	Washer, Lock - EIT (5/16")
5	337-0049	1	Strap, Electrical - Ground
6	301-8617	1	Box, Control

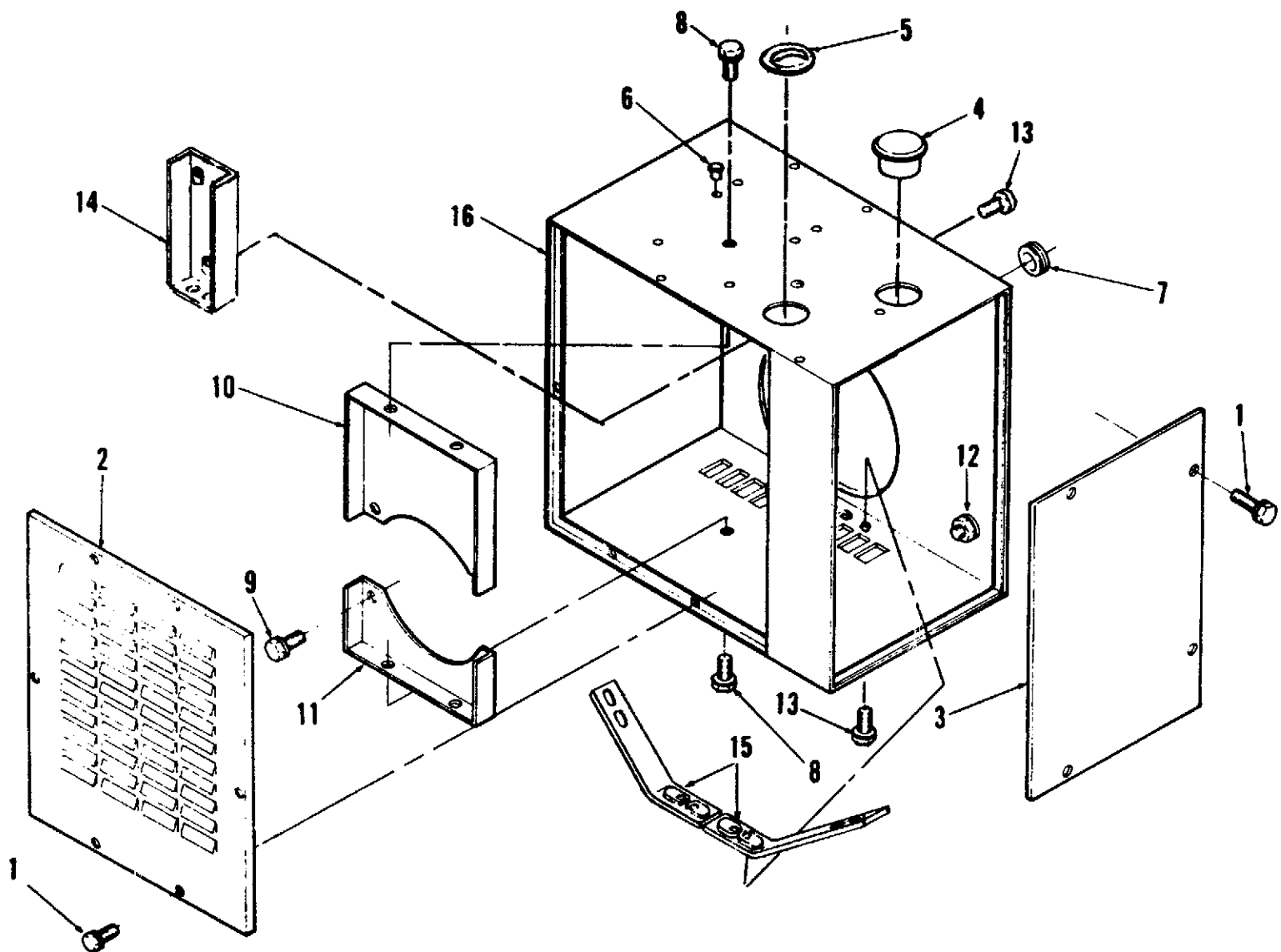
Circuit Breaker



Circuit Breaker

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-0010	4	Screw, Self-locking - Hex Head (1/4-20 x 1/2")	7	850-0025	4	Washer, Lock - Spring (#8)
2	301-8898	1	Cover, Output Box (With 3-5/16"W x 2-3/8"H Cutout)	8	860-0008	4	Nut, Hex (#8-32)
3	812-0063	6	Screw, Machine - Round Head (#6-32 x 1/2")	9			Breaker, Circuit
4	320-0698	1	Breaker, Circuit 50 Amp 240 VAC 2 Pole		320-1458-24	1	60 Amp 480 VAC 3 Pole
5	301-8896	1	Cover, Output Box (With 1-7/16"W x 2-7/8"H Cutout)		320-1555-02	1	150 Amp 240 VAC 2 Pole
6	812-0094	4	Screw, Machine - Round Head (#8-32 x 3-5/8")		320-1555-06	1	125 Amp 240 VAC 3 Pole
					320-1555-08	1	175 Amp 240 VAC 3 Pole
				10	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")
				11	850-0040	2	Washer, Lock - Spring (1/4")
				12	301-7572	1	Bracket, Mounting - Circuit Breaker

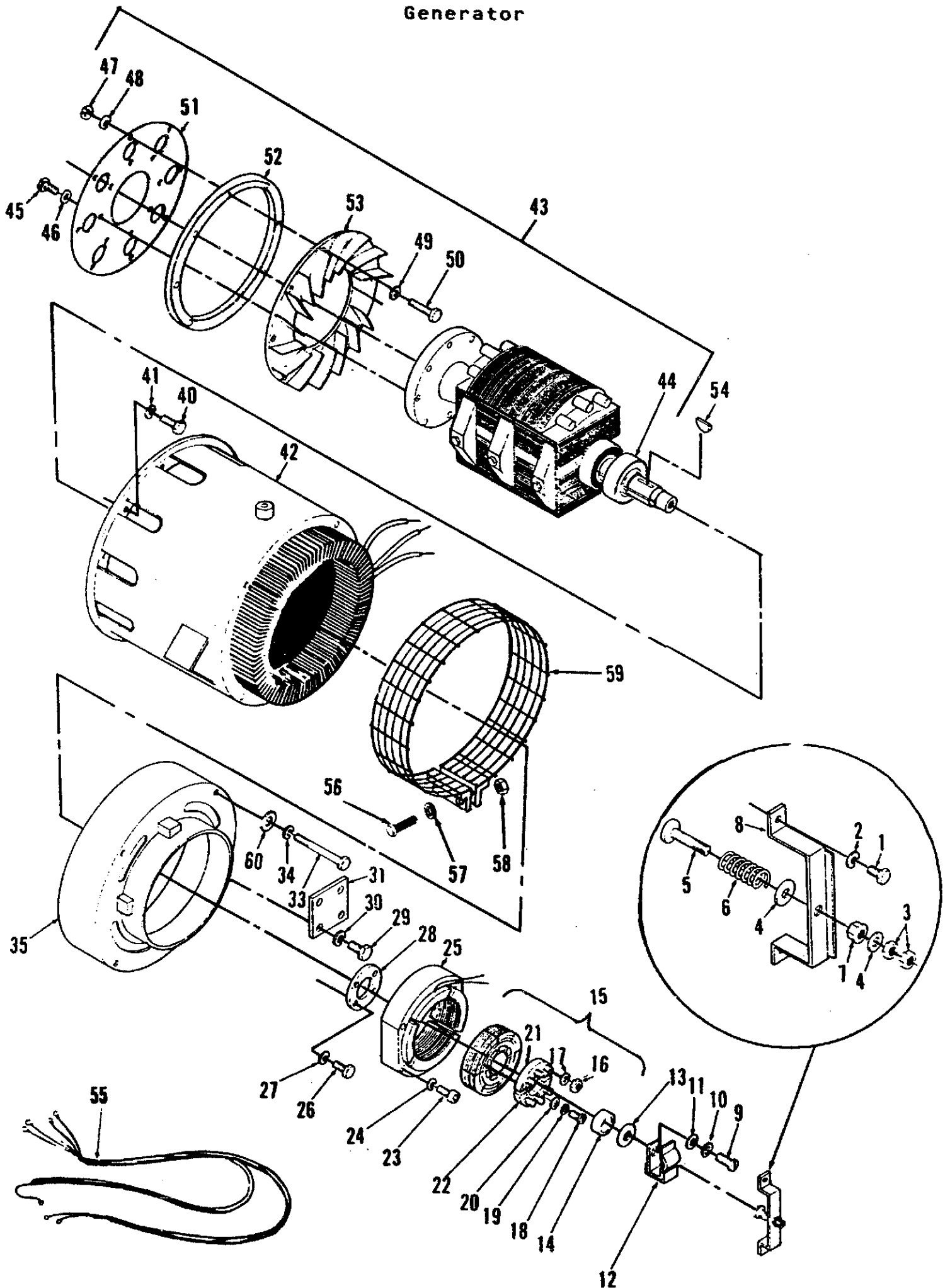
Output Box



Output Box

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-2032	10	Screw, Self-locking - Hex Head (M6 x 1 x 12MM)	12			Terminal, Ground (Includes Screw, Washers and Nuts)
2	301-8112	1	Grille	800-2035	1		Screw, Cap - Hex Head (M6 x 1 x 25MM)
3	301-8114	1	Cover - Side	870-2054	2		Nut, Self-locking - Hex Head (M6 x 1)
4	517-0190	1	Plug, Plastic (3-1/2")	856-0006	4		Washer, Lock - EIT (1/4")
5	508-0257	1	Grommet, Plastic	13	821-2045	13	Screw, Self-locking - Hex Head (M8 x 1.25 x 16MM)
6	517-0169	9	Plug, Plastic (3/8")	14	301-9038	1	Bracket, Support - Upper
7	508-0258	1	Grommet, Rubber	15	301-9037	2	Bracket, Support - Lower
8	821-2032	4	Screw, Self-locking - Hex Head (M6 x 1 x 12MM)	16	301-8978	1	Box, Output
9	821-0014	4	Screw, Self-locking - Hex Head (5/16-18 x 1/2")				
10	301-8951	1	Bracket, Support - Upper				
11	301-8952	1	Bracket, Support - Lower				

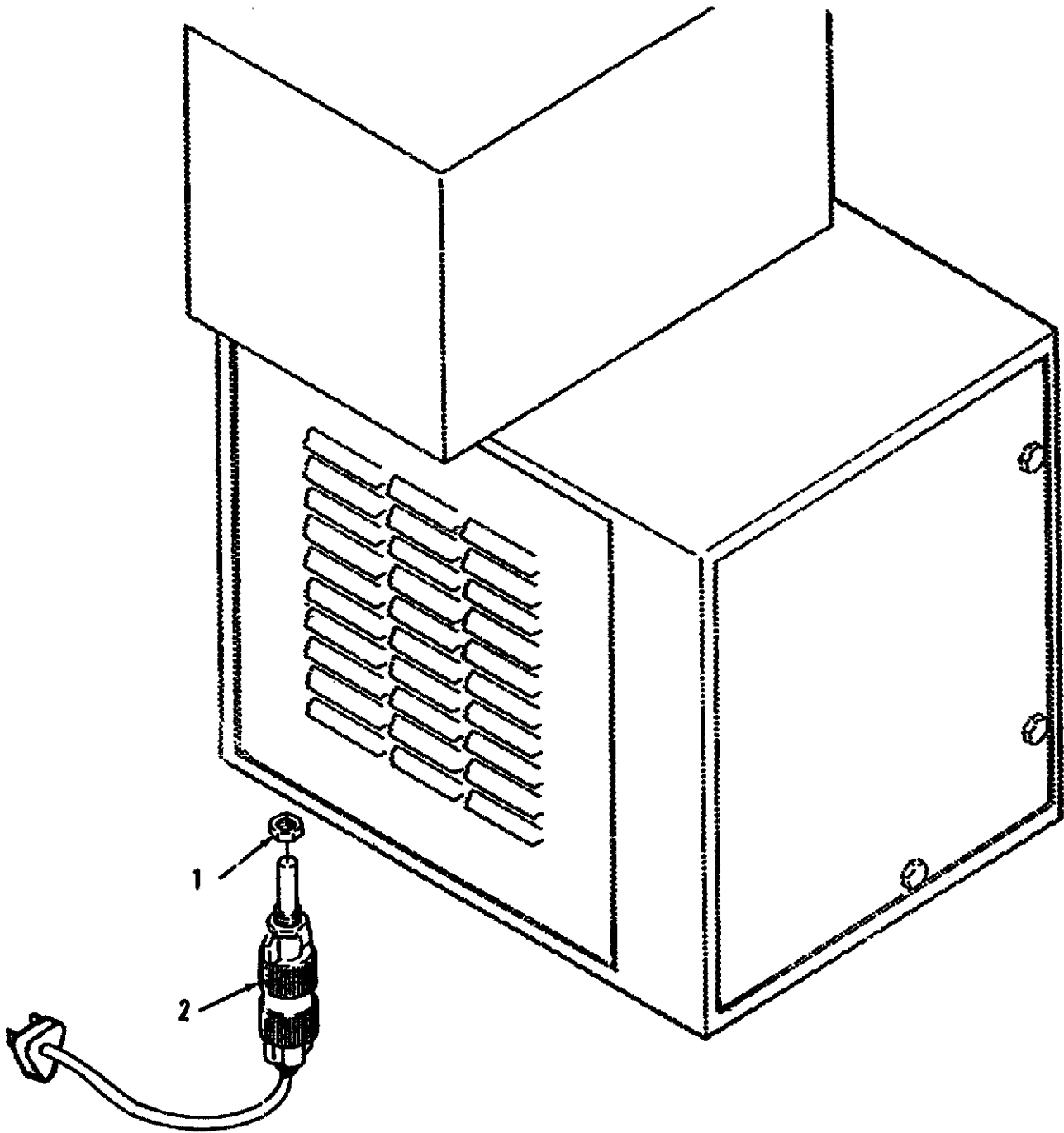
Generator



Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-2029	2	Screw, Cap - Hex Head (M6 x 1 x 12MM)	30	850-2005	2	Washer, Lock - Spring (M5)
2	850-2006	2	Washer, Lock - Spring (M6)	31	232-2418	1	Strip, Terminal
3	860-2006	2	Nut, Hex (M5 x 0.8)	33	800-2100	4	Screw, Cap - Hex Head (M10 x 1.5 x 100MM)
4	526-2060	2	Washer, Flat (M5)	34	850-2010	4	Washer, Lock - Spring (M10)
5	150-1962	1	Contact	35	211-0367	1	End Bell
6	150-1964	1	Spring	36	815-0337	4	Screw, Tapping - Hex Head (1/4-20 x 3/4")
7	870-0171	1	Nut, Insulating	40	800-2088	12	Screw, Cap - Hex Head (M10 x 1.5 x 35MM)
8	150-1963	1	Bracket, Mounting	41	850-2010	12	Washer, Lock - Spring (M10)
9	720-1057	1	Screw, Cap - Hex Head (M10 x 1.5 x 40MM)	42			Stator, Generator
10	853-2010	1	Washer, Lock - ET (M10)		220-3814	1	Code 15
11	526-2120	3	Washer, Flat (M10)		220-3960	1	Code 15, Enviromental Protected
12	150-2038	1	Switch, Overspeed	43	201-3099	1	Rotor, Generator (Includes Bearing, Fan and Drive Disk)
13	526-2129	1	Washer, Flat (M11)	44	510-0063	1	Bearing, Ball
14	232-2929	1	Spacer, Sleeve	45	800-2112	8	Screw, Cap - Hex Head (M12 x 1.75 x 30MM)
15	201-2299	1	Rotor, Exciter (Includes Rectifiers)	46	526-2148	8	Washer, Flat (M12)
16	870-0131	6	Nut, Self-locking - Hex with ET Lockwasher (#10-32)	47	860-2009	4	Nut, Hex (M10 x 1.5)
17	526-0008	6	Washer, Flat (#10)	48	850-2010	8	Washer, Lock - Spring (M10)
18	813-0100	4	Screw, Machine - Round Head (#10-32 x 1/2")	49	526-2121	8	Washer, Flat (M10)
19	853-0008	4	Washer, Lock - ET (#10)	50	800-2533	8	Screw, Cap - Hex Head (M10 x 1.5 x 55MM)
20	526-0008	4	Washer, Flat (#10)	51	232-3071	1	Disk, Drive
21	358-0069	1	Rectifier - Positive	52	232-3082	1	Ring - Fan Spacer
22	358-0070	1	Rectifier - Negative	53	205-0161	1	Fan
23	802-2073	4	Screw, Cap - Socket Head (M6 x 1 x 45MM)	54	515-0158	1	Key, Woodruff (#6)
24	850-2006	4	Washer, Lock - Spring (M6)	55	338-1886	1	Harness, Wiring - Generator to Control
25			Stator, Exciter	56	800-0012	2	Screw, Cap - Hex Head (1/4-20 x 1-3/4")
	220-3968	1	Standard	57	526-0021	2	Washer, Flat (1/4")
	220-3969	1	Enviromental Protected	58	870-0212	2	Nut, Self-locking - Hex Head (1/4-20)
26	800-2029	4	Screw, Cap - Hex Head (M6 x 1 x 12MM)	59	234-0819	1	Screen, Air
27	850-2006	4	Washer, Lock - Spring (M6)	60	526-2121	4	Washer, Flat (M10)
28	232-2959	1	Cover - Bearing				
29	800-2004	2	Screw, Cap - Hex Head (M5 x 0.8 x 12MM)				

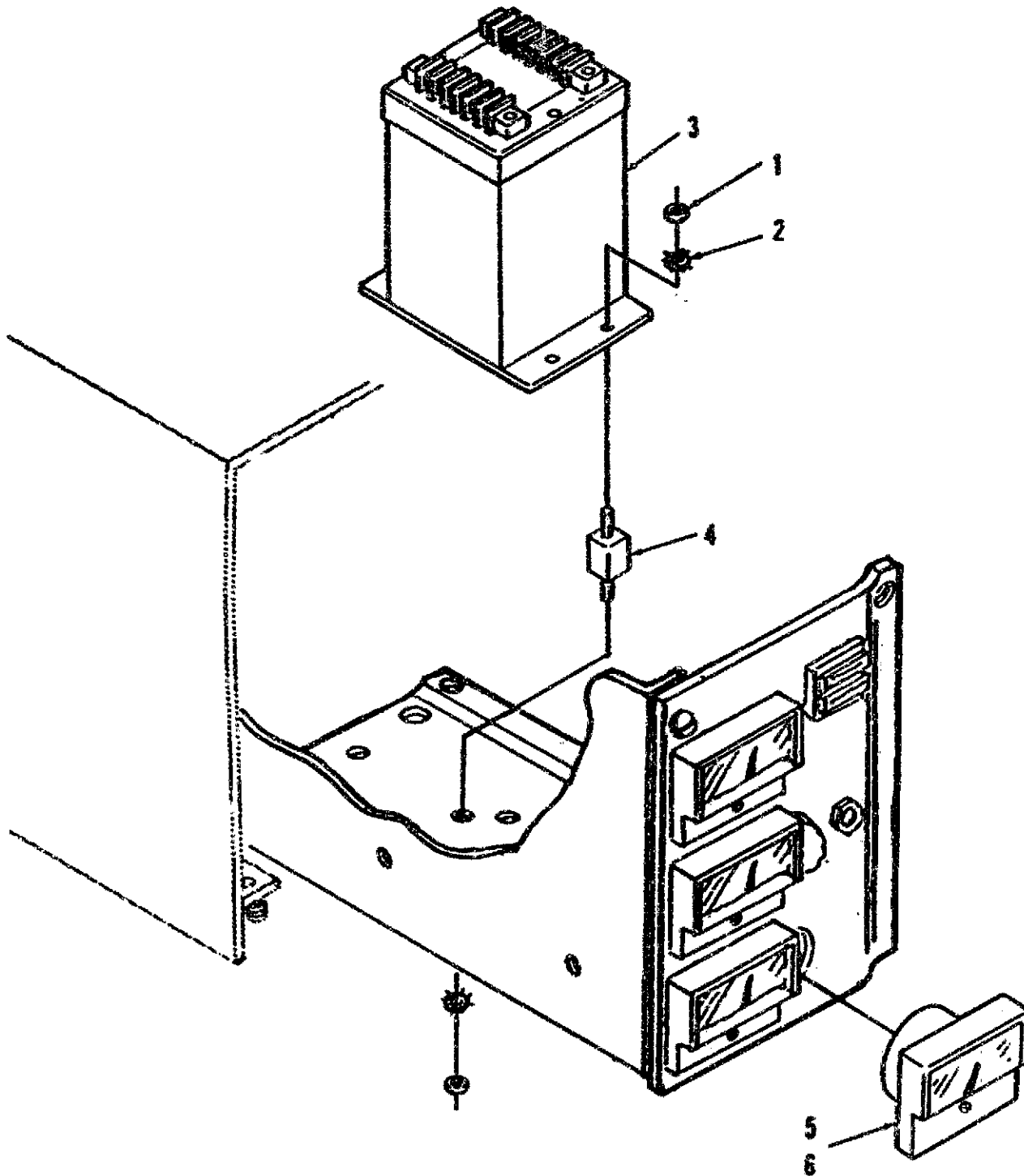
Heater - Generator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	331-0041	2	Nut, Hex - Special

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
2	333-0184	1	Heater, Electrical (Includes Electrical Cord)

Wattmeter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	860-0008	8	Nut, Hex (#8-32)
2	853-0005	8	Washer, Lock - ET (#8)
3	302-1082	1	Transducer, Watt
	302-1113	1	3 Phase, 60 Hertz
		1	Single Phase, 60 Hertz

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
4	402-0354	4	Mount, Vibration
5	302-1722	1	Wattmeter (Less Replaceable Dial)
6	302-1721-02	1	Dial, Wattmeter
			Scale 0-50 KW

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